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<211> 2276

<212> DNA

<213> Homo sapiens

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<211> 2076

<212> DNA

<213> Homo sapiens

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<sup>&</sup>lt;210> 2004

<sup>&</sup>lt;211> 2525

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

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<210> 2005

<211> 3574

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<sup>&</sup>lt;210> 2016

<sup>&</sup>lt;211> 3949

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<400> 2016

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<210> 2017

<211> 3618

<212> DNA

<213> Homo sapiens

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<210> 2018

<211> 3451

<212> DNA

<213> Homo sapiens

<400> 2018

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<210> 2019

<211> 4497

<212> DNA

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<400> 2019

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# <213> Homo sapiens

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<213> Homo sapiens

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<sup>&</sup>lt;210> 2032

<sup>&</sup>lt;211> 4050

<sup>&</sup>lt;212> DNA

# <213> Homo sapiens

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<211> 3663

<212> DNA

<213> Homo sapiens

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<211> 3615

<212> DNA

<213> Homo sapiens

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<400> 2052

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<211> 2079

<212> DNA

<213> Homo sapiens

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<sup>&</sup>lt;210> 2054

<sup>&</sup>lt;211> 1913

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<400> 2054

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<211> 2751

<212> DNA

<213> Homo sapiens

<400> 2055

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2751

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<211> 2816

<212> DNA

<213> Homo sapiens

<400> 2056

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<210> 2057

<211> 1766

<212> DNA

<213> Homo sapiens

<400> 2057

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<211> 3359

<212> DNA

<213> Homo sapiens

# <400> 2058

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<210> 2059

<211> 1692

<212> DNA

<213> Homo sapiens

### <400> 2059

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<210> 2060

<211> 2269

<212> DNA

<213> Homo sapiens

<400> 2060

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<210> 2061

<211> 2395

<212> DNA

<213> Homo sapiens

### <400> 2061

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<210> 2062

<211> 2284

<212> DNA

<213> Homo sapiens

<400> 2062

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<210> 2063

<211> 3914

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

<400> 2067

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<213> Homo sapiens

<400> 2068

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<211> 3341

<212> DNA

<213> Homo sapiens

<400> 2069

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<212> DNA

<213> Homo sapiens

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<400> 2071

<sup>&</sup>lt;210> 2071

<sup>&</sup>lt;211> 2564

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 2624

<212> DNA

<213> Homo sapiens

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<211> 2658

<212> DNA

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<212> DNA

<213> Homo sapiens

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<210> 2077

<211> 1670

<212> DNA

<213> Homo sapiens

<400> 2077

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<211> 2899

<212> DNA

<213> Homo sapiens

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<211> 1866

<212> DNA

<213> Homo sapiens

<400> 2079

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<212> DNA

<213> Homo sapiens

<400> 2080

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<211> 2295

<212> DNA

<213> Homo sapiens

<400> 2081

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<211> 3038

<212> DNA

<213> Homo sapiens

<400> 2082

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<212> DNA

<213> Homo sapiens

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<210> 2084

<211> 2612

<212> DNA

<213> Homo sapiens

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<210> 2085

<211> 1894

<212> DNA

<213> Homo sapiens

<400> 2085

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<210> 2086

<211> 1963

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 2087

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<sup>&</sup>lt;210> 2091

<sup>&</sup>lt;211> 2631

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

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<211> 1803

<212> DNA

<213> Homo sapiens

## <400> 2092

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<211> 2361

<212> DNA

<213> Homo sapiens

<400> 2093

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<210> 2103

<211> 1907

<212> DNA

<213> Homo sapiens

<400> 2103

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<212> DNA

<213> Homo sapiens

<400> 2104

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<210> 2105

<211> 2507

<212> DNA

<213> Homo sapiens

<400> 2105

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<210> 2106

<211> 2230

<212> DNA

<213> Homo sapiens

<400> 2106

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<sup>&</sup>lt;210> 2107

<sup>&</sup>lt;211> 2128

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<400> 2107

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<210> 2108

<211> 2072

<212> DNA

<213> Homo sapiens

## <400> 2108

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<sup>&</sup>lt;210> 2109

<sup>&</sup>lt;211> 2280

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<400> 2109

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<210> 2110

<211> 2138

<212> DNA

<213> Homo sapiens

## <400> 2110

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<210> 2111

<211> 2160

<212> DNA

<213> Homo sapiens

# <400> 2111

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<210> 2112

<211> 2439

<212> DNA

<213> Homo sapiens

## <400> 2112

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<210> 2113

<211> 2067

<212> DNA

<213> Homo sapiens

<400> 2113

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<210> 2114

<211> 2676

<212> DNA

<213> Homo sapiens

# <400> 2114

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<211> 2805

<212> DNA

<213> Homo sapiens

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<211> 2180

<212> DNA

<213> Homo sapiens

#### <400> 2116

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<sup>&</sup>lt;210> 2117

<sup>&</sup>lt;211> 2342

<sup>&</sup>lt;212> DNA

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<210> 2118

<211> 2438

<212> DNA

<213> Homo sapiens

#### <400> 2118

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<210> 2119

<211> 2218

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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2308

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<211> 3265

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<211> 2469

<212> DNA

<213> Homo sapiens

<400> 2125

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<sup>&</sup>lt;210> 2126

<sup>&</sup>lt;211> 2369

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<400> 2126

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<210> 2127

<211> 2448

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

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<sup>&</sup>lt;212> DNA

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<211> 5147

<212> DNA

<213> Homo sapiens

<400> 2169

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<sup>&</sup>lt;210> 2170

<sup>&</sup>lt;211> 4631

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<400> 2170

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<sup>&</sup>lt;210> 2171

<sup>&</sup>lt;211> 3898

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<sup>&</sup>lt;213> Homo sapiens

<400> 2171

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;400> 2184

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

<400> 2187

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<211> 5524

<212> DNA

<213> Homo sapiens

<400> 2188

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<210> 2189

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2189

Met His Thr His Thr His Thr His Thr Pro Lys Met Ala Asp Leu

1 5 10 15

Leu Gly Ser Ile Leu Ser Ser Met Glu Lys Pro Pro Ser Leu Gly Asp
20 25 30

Gln Glu Thr Arg Arg Lys Ala Arg Glu Gln Ala Ala Arg Leu Lys Lys

Leu Gln Glu Gln Glu Lys Gln Gln Lys Val Glu Phe Arg Lys Arg Met Glu Lys Glu Val Ser Asp Phe Ile Gln Asp Ser Gly Gln Ile Lys Lys Lys Phe Gln Pro Met Asn Lys Ile Glu Arg Ser Ile Leu His Asp Val Val Glu Val Ala Gly Leu Thr Ser Phe Ser Phe Gly Glu Asp Asp Asp Cys Arg Tyr Val Met Ile Phe Lys Lys Glu Phe Ala Pro Ser Asp Glu Glu Leu Asp Ser Tyr Arg Arg Gly Glu Glu Trp Asp Pro Gln Lys Ala Glu Glu Lys Arg Lys Leu Lys Glu Leu Ala Gln Arg Gln Glu Glu Ala Ala Gln Gln Gly Pro Val Val Val Ser Pro Ala Ser Asp Tyr Lys Asp Lys Tyr Ser His Leu Ile Gly Lys Gly Ala Ala Lys Asp Ala Ala His Met Leu Gln Ala Asn Lys Thr Tyr Gly Cys Val Pro Val Ala Asn Lys Arg Asp Thr Arg Ser Ile Glu Glu Ala Met Asn Glu Ile Arg Ala Lys Lys Arg Leu Arg Gln Ser Gly Glu Glu Leu Pro Pro Thr Ser

<210> 2190

<211> 213

<212> PRT <213> Homo sapiens

<400> 2190

Met Ala Ala Ala Ala Ala Gly Glu Ala Arg Arg Val Leu Val Tyr

1 5 10 15

Gly Gly Arg Gly Ala Leu Gly Ser Arg Cys Val Gln Ala Phe Arg Ala 20 25 30

Arg Asn Trp Val Thr Ala Glu Val Gly Lys Leu Leu Gly Glu Glu Lys

35 40 45

Val Asp Ala Ile Leu Cys Val Ala Gly Gly Trp Ala Gly Gly Asn Ala
50 55 60

Lys Ser Lys Ser Leu Phe Lys Asn Cys Asp Leu Met Trp Lys Gln Ser 65 70 75 80

Ile Trp Thr Ser Thr Ile Ser Ser His Leu Ala Thr Lys His Leu Lys
85 90 95

Glu Gly Gly Leu Leu Thr Leu Ala Gly Ala Lys Ala Ala Leu Asp Gly
100 105 110

Thr Pro Gly Met Ile Gly Tyr Gly Met Ala Lys Gly Ala Val His Gln
115 120 125

Leu Cys Gln Ser Leu Ala Gly Lys Asn Ser Gly Met Pro Pro Gly Ala 130 135 140

Ala Ala Ile Ala Val Leu Pro Val Thr Leu Asp Thr Pro Met Asn Arg 145 150 155 160

Lys Ser Met Pro Glu Ala Asp Phe Ser Ser Trp Thr Pro Leu Glu Phe 165 170 175

Leu Val Glu Thr Phe His Asp Trp Ile Thr Gly Lys Asn Arg Pro Ser 180 185 190

Ser Gly Ser Leu Ile Gln Val Val Thr Thr Glu Gly Arg Thr Glu Leu

195 200 205

Thr Pro Ala Tyr Phe 210

<210> 2191

<211> 244

<212> PRT

<213> Homo sapiens

<400> 2191

Met Glu Gln Leu Lys Ser Phe Gln Ile Ile Ala His Leu Lys Arg Leu

1 5 10 15

Gln Glu Glu Ile Asn Glu Val Lys Thr Trp Ser Asn Arg Ile Thr Glu 20 25 30

Lys Gln Asp Ile Leu Asn Asn Ser Leu Thr Thr Leu Ser Gln Asp Ile

35 40 45

Thr Lys Val Asp Gln Ser Thr Thr Ser Met Ala Lys Asp Val Gly Leu 50 · 55 60

Lys Ile Thr Ser Val Lys Thr Asp Ile Arg Arg Ile Ser Gly Leu Val 65 70 75 80

Thr Asp Val Ile Ser Leu Thr Asp Ser Val Gln Glu Leu Glu Asn Lys

85 90 95

Ile Glu Lys Val Glu Lys Asn Thr Val Lys Asn Ile Gly Asp Leu Leu
100 105 110

Ser Ser Ser Ile Asp Arg Thr Ala Thr Leu Arg Lys Thr Ala Ser Glu 115 120 125

Asn Ser Gln Arg Ile Asn Ser Val Lys Lys Thr Leu Thr Glu Leu Lys
130 135 140

Ser Asp Phe Asp Lys His Thr Asp Arg Phe Leu Ser Leu Glu Gly Asp 160 150 155 145 Arg Ala Lys Val Leu Lys Thr Val Thr Phe Ala Asn Asp Leu Lys Pro 170 165 175 Lys Val Tyr Asn Leu Lys Lys Asp Phe Ser Arg Leu Glu Pro Leu Val 185 190 180 Asn Asp Leu Thr Leu Arg Ile Gly Arg Leu Val Thr Asp Leu Leu Gln 195 200 205 Arg Glu Lys Glu Ile Ala Phe Leu Ser Glu Lys Ile Ser Asn Leu Thr 210 215 220 Ile Val Gln Ala Glu Ile Lys Asp Ile Lys Asp Glu Ile Ala His Ile 225 240 230 235 Ser Asp Met Asn

<210> 2192

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2192

Met Gln Ser Lys Ala Pro Leu Met Pro Ala Ala Leu Arg Pro Ser Met

1 5 10 15

Ser Pro Ala Gln Gln Ser Ser Tyr Tyr Lys Arg His Arg Ala Glu His
20 25 30

Ile Ala Ser Asp Pro Glu Glu Ser Pro Pro Ser Gln Leu Gly Thr Ile
35 40 45

Val Lys Glu Met Cys Trp Arg Lys Ser Pro Ser Val Ser Cys Leu Ser

Ile Lys Leu His Ser Val Trp Val Cys Ile Leu Pro Ile Leu Ala Val 65 70 75 80

Leu Gly Leu Arg Ile Leu Gly Ser Ser Arg Val Ser Ile Pro Tyr His 85 90 95

Ala His Leu Gly Asn Arg Gly Thr Gly Gln Tyr Arg 100 105

<210> 2193

<211> 475

<212> PRT

<213> Homo sapiens

<400> 2193

Met Asp Trp Thr Trp Arg Val Leu Phe Val Val Ala Ala Ser Thr Gly

1 5 10 15

Val Gln Ser Gln Val Gln Leu Met Gln Ser Gly Ala Glu Val Lys Lys

20 25 30

Pro Gly Ser Ser Val Lys Val Ser Cys Lys Thr Ser Gly Ala Ser Phe 35 40 45

Ala Ser Tyr Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
50 55 60

Glu Trp Met Gly Gly Ile Ile Pro Val Phe Arg Thr Pro Asn Tyr Ala
65 70 75 80

Gln Lys Phe Gln Gly Arg Leu Thr Ile Thr Ala Asp Asp Ser Thr Gly
85 90 95

Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Tyr Glu Asp Thr Ala Val 100 105 110

Tyr	Tyr	Cys	Ala	Ser	Leu	Ala	Cys	Gly	Asp	Asp	Cys	Ser	Phe	Leu	Tyr
		115					120					125			
His	Tyr	Tyr	Met	Ala	Ala	Trp	Gly	Arg	Gly	Thr	Ala	Val	Thr	Val	Ser
	130					135					140		•		
Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser
145					150					155					160
Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp
				165					170					175	
Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr
			180					185					190		
Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr
		195					200					205			•
Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln
	210					215					220				
Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp
225					230					235					240
Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro
				245					250					255	
Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
			260					265					270		
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
		275					280					285			
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
	290					295					300				
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
305					310					315					320
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
				325					330					335	
Leu	His	Gln	Asp	Trp	Leu	Asn	Glv	Lvs	Glu	Tvr	Lvs	Cvs	Lvs	Val	Ser

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Gly Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys 

<210> 2194

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2194

Met Cys Gly Val Met Ile Tyr Val Phe Phe Phe Glu Met Gly Trp Ser

1 5 10 15

Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala His
20 25 30

Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Leu Pro Ala Ser Ala Ser Ser Val Ala Gly Thr Thr Gly Ala Cys Gln His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr Lys Val Pro Gly Leu Lys Arg Ser Met Gly Leu Ser Phe Leu Lys Cys Trp Asp Tyr Arg Arg Glu Pro Leu Tyr Thr Phe Asn Leu Ile Ser Cys Met Tyr Tyr Thr Pro Asp Phe Lys Phe Tyr Arg Pro Leu Ile Phe Tyr Ser Leu Pro Lys Gln Met Thr Arg Phe Leu Ala Val Phe Ser Gly <210> 2195 <211> 124 <212> PRT <213> Homo sapiens <400> 2195 Met Leu Pro Ser Lys Ala Phe Glu Phe Ala Thr Val Lys Ser Met His Gly Ile Phe Gly Cys Gly Leu Ala Leu Pro Pro Val Phe Thr Ala Glu Leu Leu Tyr Leu Thr Arg Ala Cys Ala Ser Asp Glu Gln Pro Phe Ile

Thr Ala Leu Arg Pro Pro Pro Arg Pro Pro Pro Ser Ala Leu Gln Phe

55 60 50 Ile Ser Arg Leu Val Pro Ile Ala Thr Cys Gly Leu Gly Gly Pro Pro 75 70 65 Asp Ile Leu Ser Phe Gly Ser Pro Val Thr Pro Glu Leu Leu Pro Phe 85 . 90 95 Trp Gly Ala His Ile Cys Asp Thr Leu Val Cys Pro Val His Phe Leu 100 105 110 His Leu Glu Phe Leu Ser Cys Ser His Ile Ser Ile 120 115

<210> 2196

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2196

Met Lys Arg Gly Tyr Pro His Pro Ser Glu Gly Leu Ser Val Gly Leu

1 5 10 15

Gln Ala Pro Leu Ala Ser Cys Leu Leu Val Gly Thr Ser Gly Ala Ala 20 25 30

His Cys Gln Val Gln Leu Ser Arg Pro Cys Cys Val Trp Gly Gln Trp

35 40 45

Ala Leu Glu Ser Ser Ser Gln Thr Ala Pro Gly Ala Val Pro Leu Ser 50 55 60

Leu Leu Leu Pro Arg Pro Arg Cys Ser Leu Ser Val Leu Gln His
65 70 75 80

Arg Ala Leu Asp Cys Pro Cys Pro Ala Gly Gly Ala Gly Gln His Trp

85 90 95

Ser His Ser Leu Arg Trp Cys His Ser Ser Pro Glu Glu Leu Ser Ser 100 105 110

Arg His Arg Ile Pro Pro Val Thr Ile Gly Arg Gln Asp Thr Gln Asp 115 120 125

Leu Gly Gly Cys Gly Thr Ser Glu Arg Gly 130 135

<210> 2197

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2197

Met Gly Gly Pro Gly Leu Gly Ser His Leu Ser Gly Gly Gly Trp Ser

1 5 10 15

Arg Ala Arg Ser Met Cys Thr Pro Gly Thr Lys Asp Pro Arg Ala Leu

20 25 30 Leu Leu Asp Ala Leu Arg Ser Pro Thr Ser Asn Gln Asp Leu Gly Glu

35 40 45

Ala Ser Leu Gln Ala Thr Leu Leu Gly Leu Ala Ala Leu Asn Lys Ala
50 55 60

Tyr Pro Glu Val Leu Ala Gln Gly Arg Thr Ala Arg Val Thr Leu Thr
65 70 75 80

Ser Pro Trp Pro Arg Pro Leu Pro Trp Pro Gly Asn Thr Leu Gly Gln
85 90 95

Val Gly Thr Pro Gly Thr Lys Ala Leu Arg Trp Cys Leu Gln Gly Ala 100 105 110

Gln Arg Pro His Cys Ser Leu Arg Arg Ser Thr Asp Ile Ser Thr Phe

Arg Asn His Leu Pro Leu Thr Lys Ala Ser Gln Thr Gln Gln Glu Asp
130 135 140

Ser Gly Glu Gln Pro Leu Pro Pro Thr Ser Asn Gln Gly
145 150 155

<210> 2198

<211> 392

<212> PRT

<213> Homo sapiens

<400> 2198

Met Leu Ala Pro Cys Phe Leu Tyr Ser Leu Gln Asn Trp Asp Ile Ile
1 5 10 15

Phe Asn Ala Gln Tyr Pro Glu Leu Pro Pro Asp Phe Ile Phe Gly Glu
20 25 30

Asp Ala Glu Phe Leu Pro Asp Pro Ser Ala Leu Gln Asn Leu Ala Ser

35 40 . 45

Trp Asn Pro Ser Asn Pro Glu Cys Leu Leu Leu Val Val Lys Glu Leu 50 55 60

Val Gln Gln Tyr His Gln Phe Gln Cys Ser Arg Leu Arg Glu Ser Ser
65 70 75 80

Arg Leu Met Phe Glu Tyr Gln Thr Leu Leu Glu Glu Pro Gln Tyr Gly

85 90 95

Glu Asn Met Glu Ile Tyr Ala Gly Lys Lys Asn Asn Trp Asn Leu Ala 100 105 110

Ser Trp Asn Pro Ser Asn Pro Glu Cys Leu Leu Leu Val Val Lys Glu 115 120 125

Leu	Val	Gln	Gln	Tyr	His	Gln	Phe	Gln	Cys	Ser	Arg	Leu	Arg	Glu	Ser
	130					135					140				
Ser	Arg	Leu	Met	Phe	Glu	Tyr	Gln	Thr	Leu	Leu	Glu	Glu	Pro	Gln	Tyr
145					150					155					160
Gly	Glu	Asn	Met	Glu	Ile	Tyr	Ala	Gly	Lys	Lys	Asn	Asn	Trp	Thr	Gly
				165					170					175	
Glu	Phe	Ser	Ala	Arg	Phe	Leu	Leu	Lys	Leu	Pro	Val	Asp	Phe	Ser	Asn
			180					185					190		
Ile	Pro	Thr	Tyr	Leu	Leu	Lys	Asp	Val	Asn	Glu	Asp	Pro	Gly	Glu	Asp
		195					200					205			
Val	Ala	Leu	Leu	Ser	Val	Ser	Phe	Glu	Asp	Thr	Glu	Ala	Thr	Gln	Val
	210					215					220				
Tyr	Pro	Lys	Leu	Tyr	Leu	Ser	Pro	Arg	Ile	Glu	His	Ala	Leu	Gly	Gly
225					230					235					240
Ser	Ser	Ala	Leu	His	Ile	Pro	Ala	Phe	Pro	Gly	Gly	Gly	Cys	Leu	Ile
				245					250					255	
Asp	Tyr	Val	Pro	Gln	Val	Cys	His	Leu	Leu	Thr	Asn	Lys	Val	Gln	Tyr
			260					265					270		
Val	Ile	Gln	Gly	Tyr	His	Lys	Arg	Arg	Glu	Tyr	Ile	Ala	Ala	Phe	Leu
		275					280					285			
Ser	His	Phe	Gly	Thr	Gly	Val	Val	Glu	Tyr	Asp	Ala	Glu	Gly	Phe	Thr
	290					295					300				
Lys	Leu	Thr	Leu	Leu	Leu	Met	Trp	Lys	Asp	Phe	Cys	Phe	Leu	Val	His
305					310					315					320
Ile	Asp	Leu	Pro	Leu	Phe	Phe	Pro	Arg	Asp	Gln	Pro	Thr	Leu	Thr	Phe
				325					330					335	
Gln	Ser	Val	Tyr	His	Phe	Thr	Asn	Ser	Gly	Gln	Leu	Tyr	Ser	Gln	Ala
			340					345					350		
Gln	Lys	Asn	Tyr	Pro	Tyr	Ser	Pro	Arg	Trp	Asp	Gly	Asn	Glu	Met	Ala

355 360 365

Lys Arg Ala Lys Ala Tyr Phe Lys Thr Phe Val Pro Gln Phe Gln Glu 370 375 380

Ala Ala Phe Ala Asn Gly Lys Leu

385 390

<210> 2199

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2199

Met Gln Thr Ser Phe Ala Ala Lys Glu Pro Gly Gln Ala Arg Leu Leu

1 5 10 15

Pro Gly Leu Ala Arg Asn Arg Leu Arg Arg His Phe Pro Leu Ser Leu 20 25 30

Pro Gly Pro Glu Arg Ser Pro Pro Leu Pro Ser Arg Pro Leu Ser Gly
35 40 45

Ser Leu Gln Val Ser Ile Gln Lys Arg Leu Arg Ala Ala Gln Arg Trp
50 55 60

Arg Pro Gly Gly Ala Glu Ala Arg Gly Gln Met Thr Arg Leu Gly Gly
65 70 75 80

Lys Gly Gln Gln Phe Pro Pro Gly Gln Lys Ile Ile Ser Lys Asp
85 90 95

Ile Leu Ala Leu Thr Ala Leu Ser Val Ala Arg Lys Leu Ser Ser Val
100 105 110

Asn Cys

<210> 2200

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2200

Met Gly Leu Pro Arg Pro Lys Arg Leu Lys Lys Glu Phe Ser Leu

1 5 10 15

Glu Glu Ile Tyr Thr Asn Lys Asn Tyr Lys Ser Pro Pro Ala Asn Arg

20 25 30

Cys Leu Glu Thr Ile Phe Glu Glu Pro Lys Glu Arg Asn Gly Thr Leu

35 40 45

Ile Ser Ile Ser Gln Gln Lys Arg Lys Arg Val Leu Glu Phe Gln Asp

50 55 60

Phe Thr Val Pro Arg Lys Arg Arg Ala Arg Gly Lys Val Lys Val Ala

65 70 75 80

Gly Ser Phe Thr Arg Ala Gln Lys Ala Ala Val Gln Ser Arg Glu Leu

85 90 95

Asp Ala Leu Leu Ile Gln Lys Leu Met Glu Leu Glu Thr Phe Phe Ala

100 105 110

Lys Glu Glu Glu Gln Glu Gln Ser Ser Gly Cys

115 120

<210> 2201

<211> 364

<212> PRT

<213> Homo sapiens

<400> 2201

Met Cys Phe Arg Val Lys Phe Tyr Pro Ala Asp Pro Ala Ala Leu Lys

1 5 10 15

Glu Glu Ile Thr Arg Tyr Leu Val Phe Leu Gln Ile Lys Arg Asp Leu
20 25 30

Tyr His Gly Arg Leu Leu Cys Lys Thr Ser Asp Ala Ala Leu Leu Ala 35 40 45

Ala Tyr Ile Leu Gln Ala Glu Ile Gly Asp Tyr Asp Ser Gly Lys His
50 55 60

Pro Glu Gly Tyr Ser Ser Lys Phe Gln Phe Pro Lys His Ser Glu 65 70 75 80

Lys Leu Glu Arg Lys Ile Ala Glu Ile His Lys Thr Glu Leu Ser Gly
85 90 95

Gln Thr Pro Ala Thr Ser Glu Leu Asn Phe Leu Arg Lys Ala Gln Thr
100 105 110

Leu Glu Thr Tyr Gly Val Asp Pro His Pro Cys Lys Asp Val Ser Gly
115 120 125

Asn Ala Ala Phe Leu Ala Phe Thr Pro Phe Gly Phe Val Val Leu Gln
130 135 140

Gly Asn Lys Arg Val His Phe Ile Lys Trp Asn Glu Val Thr Lys Leu 145 150 155 160

Lys Phe Glu Gly Lys Thr Phe Tyr Leu Tyr Glu Lys Lys Ile Ile Leu 165 170 175

Thr Tyr Phe Ala Pro Thr Pro Glu Ala Cys Lys His Leu Trp Lys Cys
180 185 190

Gly Ile Glu Asn Gln Ala Phe Tyr Lys Leu Glu Lys Ser Ser Gln Val
195 200 205

Arg Thr Val Ser Ser Ser Asn Leu Phe Phe Lys Gly Ser Arg Phe Arg Tyr Ser Gly Arg Val Ala Lys Glu Val Met Glu Ser Ser Ala Lys Ile Lys Arg Glu Pro Pro Glu Ile His Arg Ala Gly Met Val Pro Ser Arg Ser Cys Pro Ser Ile Thr His Gly Pro Arg Leu Ser Ser Val Pro Arg Thr Arg Arg Arg Ala Val His Ile Ser Ile Met Glu Gly Leu Glu Ser Leu Arg Asp Ser Ala His Ser Thr Pro Val Arg Ser Thr Ser His Gly Asp Thr Phe Leu Pro His Val Arg Ser Ser Arg Thr Asp Ser Asn Glu Arg Val Ala Val Ile Ala Asp Glu Ala Tyr Ser Pro Ala Asp Ser Val Leu Pro Thr Pro Val Ala Glu His Ser Leu Glu Leu Met Leu Leu Ser Arg Gln Ile Asn Gly Ala Thr Cys Ser Ile Glu Glu 

<210> 2202

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2202

Met Asp Ser Ser Ala Val Val Lys Gly Thr Asn Ser His Val Pro Asp

1				5					10					15	
Cys	His	Thr	Lys	Gly	Ser	Ser	Phe	Leu	Gly	Lys	Glu	Leu	Ser	Leu	Asp
			20					25					30		
Glu	Ala	Phe	Pro	Asp	Gln	Gln	Asn	Gly	Ser	Ala	Thr	Asn	Ala	Trp	Asp
		35					40					45			
Gln	Ser	Ser	Cys	Ser	Ser	Pro	Lys	Trp	Glu	Cys	Thr	Glu	Leu	Ile	His
	50					55					60				
Asp	Ile	Pro	Leu	Pro	Glu	His	Arg	Ser	Asn	Thr	Met	Phe	Ile	Ser	Glu
65					70					75					80
Thr	Glu	Arg	Glu	Ile	Met	Thr	Leu	Gly	Gln	Glu	Asn	Gln	Thr	Ser	Ser
				85					90					95	
Val	Ser	Asp	Asp	Arg	Val	Lys	Leu	Ser	Val	Ser	Gly	Ala	Asp	Thr	Ser
			100					105					110		
Val	Ser	Ser	Val	Asp	Gly	Pro	Val	Ser	Gln	Lys	Ala	Val	Gln	Asn	Glu
		115					120					125			
Asn	Ser	Tyr	Gln	Met	Glu	Glu	Asp	Gly	Ser	Leu	Lys	Gln	Ser	Ile	Leu
	130					135					140				
Ser	Ser	Glu	Leu	Leu	Asp	His	Pro	Tyr	Cys	Lys	Ser	Pro	Leu	Glu	Ala
145					150					155					160
Pro	Leu	Val	Cys	Ser	Gly	Leu	Lys	Leu	Glu	Asn	Gln	Val	Gly	Gly	Gly
				165					170					175	
Lys	Asn	Ser	Gln	Lys	Ala	Ser	Pro	Val	Asp	Asp	Glu	Gln	Leu	Ser	Val
			180					185					190		
Cys	Leu	Ser	Gly	Phe	Leu	Asp	Glu	Val	Met	Lys	Lys	Tyr	Gly	Ser	Leu
		195					200					205			
Val	Pro	Leu	Ser	Glu	Lys	Glu	Val	Leu	Gly	Arg	Leu	Lys	Asp	Val	Phe
	210					215					220				
Asn	Glu	Asp	Phe	Ser	Asn	Arg	Lys	Pro	Phe	Ile	Asn	Arg	Glu	Ile	Thr
225					230					235					240

Asn	Tyr	Arg	Ala	Arg	His	Gln	Lys	Cys	Asn	Phe	Arg	Ile	Phe	Tyr	Asn
				245					250					255	
Lys	His	Met	Leu	Asp	Met	Asp	Asp	Leu	Ala	Thr	Leu	Asp	Gly	Gln	Asn
			260					265					270		
Trp	Leu	Asn	Asp	Gln	Val	Ile	Asn	Met	Tyr	Gly	Glu	Leu	Ile	Met	Asp
		275					280					285			
Ala	Val	Pro	Asp	Lys	Val	His	Phe	Phe	Asn	Ser	Phe	Phe	His	Arg	Gln
	290					295					300				
Leu	Val	Thr	Lys	Gly	Tyr	Asn	Gly	Val	Lys	Arg	Trp	Thr	Lys	Lys	Val
305					310					315					320
Asp	Leu	Phe	Lys	Lys	Ser	Leu	Leu	Leu	Ile	Pro	Ile	His	Leu	Glu	Val
				325					330					335	
His	Trp	Ser	Leu	Ile	Thr	Val	Thr	Leu	Ser	Asn	Arg	Ile	Ile	Ser	Phe
			340		•			345					350		
Tyr	Asp	Ser	Gln	Gly	Ile	His	Phe	Lys	Phe	Cys	Val	Glu	Asn	Ile	Arg
		355					360	•				365			
Lys	Tyr	Leu	Leu	Thr	Glu	Ala	Arg	Glu	Lys	Asn	Arg	Pro	Glu	Phe	Leu
	370					375					380				
Gln	Gly	Trp	Gln	Thr	Ala	Val	Thr	Lys	Cys	Ile	Pro	Gln	Gln	Lys	Asn
385					390					395					400
Asp	Ser	Asp	Cys	Gly	Val	Phe	Val	Leu	Gln	Tyr	Cys	Lys	Cys	Leu	Ala
				405					410					415	
Leu	Glu	Gln	Pro	Phe	Gln	Phe	Ser	Gln	Glu	Asp	Met	Pro	Arg	Val	Arg
			420					425					430		
Lys	Arg	Ile	Tyr	Lys	Glu	Leu	Cys	Glu	Cys	Arg	Leu	Met	Asp		
		435					440					445			

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2203

Met Val Ile Phe Arg Trp Trp Lys Ile Ser Leu Arg Ser Glu Tyr Arg

1 5 10 15

Ser Thr Lys Pro Gly Glu Ala Lys Glu Thr His Glu Asp Phe Leu Glu

20 25 30

Asn Ser His Leu Gln Gly Gln Thr Ala Leu Ile Phe Gly Ala Arg Ile

35 40 45

Leu Asp Tyr Val Ile Asn Leu Cys Lys Gly Lys Phe Asp Phe Leu Glu

50 55 60

Arg Leu Ser Asp Asp Leu Leu Leu Thr Ile Ile Ser Tyr Leu Asp Leu

65 70 75 80

Glu Asp Ile Ala Arg Leu Cys Gln Thr Ser His Arg Phe Ala Lys Leu

85 90 95

Cys Met Ser Asp Lys Leu Trp Glu Gln Ile Val Gln Ser Thr Cys Asp

100 105 110

Thr Ile Thr Pro Asp Val Arg Ala Leu Ala Glu Asp Thr Gly Trp Arg

115 120 125

Gln Leu Phe Phe Thr Asn Lys Leu Gln Leu Gln Arg Gln Leu Arg Lys

130 135 140

Arg Lys Gln Lys Tyr Gly Asn Leu Arg Glu Lys Gln Pro

145 150 155

<210> 2204

<211> 430

<212> PRT

<213> Homo sapiens

<400> 2204

Met Ala Glu Pro Gln Ala Glu Ser Glu Pro Leu Leu Gly Gly Ala Arg

1 5 10 15

Gly Gly Gly Asp Trp Pro Ala Gly Leu Thr Thr Tyr Arg Ser Ile
20 25 30

Arg Val Gly Pro Gly Ala Ala Ala Arg Trp Asp Leu Cys Ile Asp Gln
35 40 45

Ala Val Val Phe Ile Glu Asp Ala Ile Gln Gly Tyr Leu Phe Gly Trp
50 55 60

Ala His Phe Gln Lys Asn Leu Trp Leu Leu Gly Tyr Leu Val Val Leu 65 70 75 80

Val Val Ser Leu Val Asp Trp Thr Val Ser Leu Ser Leu Val Cys His

85 90 95

Glu Pro Leu Arg Ile Arg Arg Leu Leu Arg Pro Phe Phe Leu Leu Gln
100 105 110

Asn Ser Ser Met Met Lys Lys Thr Leu Lys Cys Ile Arg Trp Ser Leu
115 120 125

Pro Glu Met Ala Ser Val Gly Leu Leu Leu Ala Ile His Leu Cys Leu 130 135 140

Phe Thr Met Phe Gly Met Leu Leu Phe Ala Gly Gly Lys Gln Asp Asp 145 150 155 160

Gly Gln Asp Arg Glu Arg Leu Thr Tyr Phe Gln Asn Leu Pro Glu Ser 165 170 175

Leu Thr Ser Leu Leu Val Leu Leu Thr Thr Ala Asn Asn Pro Asp Val 180 185 190

Met Ile Pro Ala Tyr Ser Lys Asn Arg Ala Tyr Ala Ile Phe Phe Ile

		195					200					205			
Val	Phe	Thr	Val	Ile	Gly	Ser	Leu	Phe	Leu	Met	Asn	Leu	Leu	Thr	Ala
	210					215					220				
Ile	Ile	Tyr	Ser	Gln	Phe	Arg	Gly	Tyr	Leu	Met	Lys	Ser	Leu	Gln	Thr
225					230					235					240
Ser	Leu	Phe	Arg	Arg	Arg	Leu	Gly	Thr	Arg	Ala	Ala	Phe	Glu	Val	Leu
				245					250					255	
Ser	Ser	Met	Val	Gly	Glu	Gly	Gly	Ala	Phe	Pro	Gln	Ala	Val	Gly	Val
			260					265					270		
Lys	Pro	Gln	Asn	Leu	Leu	Gln	Val	Leu	Gln	Lys	Val	Gln	Leu	Asp	Ser
		275					280					285			
Ser	His	Lys	Gln	Ala	Met	Met	Glu	Lys	Val	Arg	Ser	Tyr	Gly	Ser	Val
	290					295					300				
Leu	Leu	Ser	Ala	Glu	Glu	Phe	Gln	Lys	Leu	Phe	Asn	Glu	Leu	Asp	Arg
305					310					315					320
Ser	Val	Vail	Lys	Glu	His	Pro	Pro	Arg	Pro	Glu	Tyr	Gln	Ser	Pro	Phe
				325					330					335	
Leu	Gln	Ser	Ala	Gln	Phe	Leu	Phe	Gly	His	Tyr	Tyr	Phe	Asp	Tyr	Leu
			340					345					350		
Gly	Asn	Leu	Ile	Ala	Leu	Ala	Asn	Leu	Val	Ser	Ile	Cys	Val	Phe	Leu
		355					360					365			
Val	Leu	Asp	Ala	Asp	Val	Leu	Pro	Ala	Glu	Arg	Asp	Asp	Phe	Ile	Leu
	370					375					380				
Gly	Ile	Leu	Asn	Cys	Val	Phe	Ile	Val	Tyr	Tyr	Leu	Leu	Glu	Met	Leu
385					390					395					400
Leu	Lys	Val	Phe	Ala	Leu	Gly	Leu	Arg	Gly	Tyr	Leu	Ser	Tyr	Pro	Ser
				405					410					415	
Asn	Val	Phe	Asp	Gly	Leu	Leu	Thr	Val	Val	Leu	Leu	Val	Lys		
			420				•	425					430		

<210> 2205

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2205

Met Pro Ser Phe Leu Pro Ile His Tyr Cys Ser Pro Asn Val Leu Cys

1 5 10 15

Val Trp Thr Ala Ile Thr Ser Ser Thr Phe Ser Pro Tyr Tyr Leu Leu

20 25 30

Ile Leu Gln Asn Ser Ala His Pro Gln Ile Pro Leu Arg Ser Pro Ser

35 40 45

Gly Cys Ser Ser Pro Ser Asn Leu Asn Lys Met Ser Phe Leu Gly Ala

50 55 60

Leu Ile Ala Phe Arg Leu Asp Thr Gly Pro Gln Ser Glu Val Ser Ala

65 70 75 80

Trp Thr Ala Ser Pro Ser Ser Gly Asn Ser Leu Glu Met Gln Ile Met

85 90 95

Arg Pro Tyr Pro Arg Pro Pro Glu Thr Glu Thr Leu Gly Val Gly Pro

100 105 110

Thr Thr Cys Val Leu Thr Ser Pro Ala Gly Asp Cys Asp Glu His Lys

115 120 125

Val

<210> 2206

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2206

Met Ala Ala Pro Cys Arg Cys Gly Trp Thr Trp Val Glu Leu Val Arg

1 5 10 15

Glu Ala Arg Cys Leu Asp Leu Leu Met Val Thr Gly Leu Ala Val Lys

20 25 30

Ala His Leu Gly Ser Val Ser Thr Pro Trp Ser Ser His Val Ser Val

35 40 45

Thr Phe Gln His Trp Pro Asp Gly Gly Asn Leu Leu Arg Ala His Ser

50 55 60

Pro Ala Pro Trp His Ser Arg Ser Gln Leu Ser Leu Ile Arg Thr Arg

65 70 75 80

Cys Pro Leu Val Arg Leu Leu Val Ile Gly Phe Pro Ser Ser Pro Asn

85 90 95

Val Pro Val Ile Ser His

100

<210> 2207

<211> 555

<212> PRT

<213> Homo sapiens

<400> 2207

1

Met Ile Val Thr Gly Gly Leu Ala Trp Trp Asn Asp Phe Met Val Leu

5 10 15

Ala	Cys	Tyr	Asn	Ile	Asn	Asp	Arg	Gln	Glu	Glu	Leu	Arg	Val	Tyr	Leu
			20					25					30		
Arg	Thr	Ser	Asn	Leu	Asp	Asn	Ala	Phe	Ala	His	Val	Thr	Lys	Ala	Gln
		35					40					45			
Ala	Glu	Thr	Leu	Leu	Leu	Ser	Val	Phe	Gln	Asp	Met	Val	Ile	Val	Phe
	50					55					60				
Arg	Ala	Asp	Cys	Ser	Ile	Cys	Leu	Tyr	Ser	Ile	Glu	Arg	Lys	Ser	Asp
65					70					75					80
Gly	Pro	Asn	Thr	Thr	Ala	Gly	Ile	Gln	Val	Leu	Gln	Glu	Val	Ser	Met
				85					90					95	
Ser	Arg	Tyr	Ile	Pro	His	Pro	Phe	Leu	Val	Val	Ser	Val	Thr	Leu	Thr
			100					105					110		
Ser	Val	Ser	Thr	Glu	Asn	Gly	Ile	Thr	Leu	Lys	Met	Pro	Gln	Gln	Ala
		115					120					125			
Arg	Gly	Ala	Glu	Ser	Ile	Met	Leu	Asn	Leu	Ala	Gly	Gln	Leu	Ile	Met
	130					135					140				
Met	Gln	Arg	Asp	Arg	Ser	Gly	Pro	Gln	Ile	Arg	Glu	Lys	Asp	Ser	Asn
145					150					155					160
Pro	Asn	Asn	Gln	Arg	Lys	Leu	Leu	Pro	Phe	Cys	Pro	Pro	Val	Val	Leu
				165					170					175	
Ala	Gln	Ser	Val	Glu	Asn	Val	Trp	Thr	Thr	Cys	Arg	Ala	Asn	Lys	Gln
			180					185					190		
Lys	Arg	His	Leu	Leu	Glu	Ala	Leu	Trp	Leu	Ser	Cys	Gly	Gly	Ala	Gly
		195		•			200					205			
Met	Lys	Val	Trp	Leu	Pro	Leu	Phe	Pro	Arg	Asp	His	Arg	Lys	Pro	His
	210					215					220				
Ser	Phe	Leu	Ser	Gln	Arg	Ile	Met	Leu	Pro	Phe	His	Ile	Asn	Ile	Tyr
225					230					235					240
Pro	Leu	Ala	Val	Leu	Phe	Glu	Asp	Ala	Leu	Val	Leu	Glv	Ala	Val	Asn

				245					250					255	
Asp	Thr	Leu	Leu	Tyr	Asp	Ser	Leu	Tyr	Thr	Arg	Asn	Asn	Ala	Arg	Glu
			260					265					270		
Gln	Leu	Glu	Val	Leu	Phe	Pro	Phe	Cys	Val	Val	Glu	Arg	Thr	Ser	Gln
		275					280					285			
Ile	Tyr	Leu	His	His	Ile	Leu	Arg	Gln	Leu	Leu	Val	Arg	Asn	Leu	Gly
	290					295					300				
Glu	Gln	Ala	Leu	Leu	Leu	Ala	Gln	Ser	Cys	Ala	Thr	Leu	Pro	Tyr	Phe
305					310	-				315					320
Pro	His	Val	Leu	Glu	Leu	Met	Leu	His	Glu	Val	Leu	Glu	Glu	Glu	Ala
				325					330					335	
Thr	Ser	Arg	Glu	Pro	Ile	Pro	Asp	Pro	Leu	Leu	Pro	Thr	Val	Ala	Lys
			340					345					350		
Phe	Ile	Thr	Glu	Phe	Pro	Leu	Phe	Leu	Gln	Thr	Val	Val	His	Cys	Ala
		355					360					365			
Arg	Lys	Thr	Glu	Tyr	Ala	Leu	Trp	Asn	Tyr	Leu	Phe	Ala	Ala	Val	Gly
	370					375					380				
Asn	Pro	Lys	Asp	Leu	Phe	Glu	Glu	Cys	Leu	Met	Ala	Gln	Asp	Leu	Asp
385					390					395					400
Thr	Ala	Ala	Ser	Tyr	Leu	Ile	Ile	Leu	Gln	Asn	Met	Glu	Val	Pro	Ala
				405					410					415	
Ile	Ser	Arg	Gln	His	Ala	Thr	Leu	Leu	Phe	Asn	Thr	Ala	Leu	Glu	Gln
			420					425					430		
Gly	Lys	Trp	Asp	Leu	Cys	Arg	His	Met	Ile	Arg	Phe	Leu	Lys	Ala	Ile
		435					440					445			
Gly	Ser	Gly	Glu	Ser	Glu	Thr	Pro	Pro	Ser	Thr	Pro	Thr	Ala	Gln	Glu
	450					455					460				
Pro	Ser	Ser	Ser	Gly	Gly	Phe	Glu	Phe	Phe	Arg	Asn	Arg	Ser	Ile	Ser
465					470					475					480

Leu Ser Gln Ser Ala Glu Asn Val Pro Ala Ser Lys Phe Ser Leu Gln 485 490 495 Lys Thr Leu Ser Met Pro Ser Gly Pro Ser Gly Lys Arg Trp Ser Lys 505 500 510 Asp Ser Asp Cys Ala Glu Asn Met Tyr Ile Asp Met Met Leu Trp Arg 515 520 525 His Ala Arg Arg Leu Leu Glu Asp Val Arg Leu Lys Asp Leu Gly Cys 530 535 540 Phe Ala Ala Gln Leu Gly Phe Glu Leu Ile Ser

555

550

<210> 2208

545

<211> 1235

<212> PRT

<213> Homo sapiens

<400> 2208

Met Asp His Thr Ala Ser Gln Asn Ala Gln Asp Leu Ile Gly Ile Pro

1 5 10 15

His Leu Gly Val Ser Gly Ser Ser Thr Lys Trp His Ser Glu Leu Ser

20 25 30

Pro Thr Glu Gly Pro His Ser Ala Gly Ser Ser Thr Pro Gly Phe Leu
35 40 45

Ser Pro Met Ala Glu Leu Ser His Pro Ser Pro Pro Pro Pro Ala Leu 50 55 60

Gly Ser Leu Leu Gln Leu Pro Asp Gly Ser Pro Ser Trp Ser Met Leu 65 70 75 80

Glu Val Ala Ser Gly Pro Ala Ser Thr Gln Gln Ile Lys Ala Gly Val

				85					90					95	
Pro	Gly	Arg	Val	His	Asn	Gly	Val	Ser	Leu	Pro	Thr	Phe	Lys	Asn	Thr
			100					105					110		
Glu	Thr	Ala	Thr	His	Glu	Ala	Glu	Pro	Pro	Leu	Phe	Gln	Thr	Ala	Glu
		115					120					125			
Ser	Gly	Ala	Ile	Glu	Met	Thr	Ser	Arg	Lys	Leu	Ala	Ser	Ala	Thr	Ala
	130					135					140				
Asn	Asp	Ser	Ala	Asn	Pro	Leu	His	Leu	Ser	Ala	Ala	Pro	Glu	Asn	Ser
145					150					155					160
Arg	Gly	Pro	Ala	Leu	Ser	Ala	Glu	His	Thr	Ser	Ser	Leu	Val	Pro	Ser
				165					170					175	
Leu	His	Ile	Thr	Thr	Leu	Gly	Gln	Glu	Gln	Ala	Ile	Leu	Ser	Gly	Ala
			180					185					190		
Val	Pro	Ala	Ser	Pro	Ser	Thr	Gly	Thr	Ala	Asp	Phe	Pro	Ser	Ile	Leu
		195					200					205			
Thr	Phe	Leu	Gln	Pro	Thr	Glu	Asn	His	Ala	Ser	Pro	Ser	Pro	Val	Pro
	210					215					220				
Glu	Met	Pro	Thr	Leu	Pro	Ala	Glu	Gly	Ser	Asp	Gly	Ser	Pro	Pro	Ala
225					230					235					240
Thr	Arg	Asp	Leu	Leu	Leu	Ser	Ser	Lys	Val	Pro	Asn	Leu	Leu	Ser	Thr
				245					250					255	
Ser	Trp	Thr	Phe	Pro	Arg	Trp	Lys	Lys	Asp	Ser	Val	Thr	Ala	Ile	Leu
			260					265					270		
Gly	Lys	Asn	Glu	Glu	Ala	Asn	Val	Thr	Ile	Pro	Leu	Gln	Ala	Phe	Pro
		275				-	280					285			
Arg	Lys	Glu	Val	Leu	Ser	Leu	His	Thr	Val	Asn	Gly	Phe	Val	Ser	Asp
	290					295					300				
Phe	Ser	Thr	Gly	Ser	Val	Ser	Ser	Pro	Ile	Ile	Thr	Ala	Pro	Arg	Thr
305					310					315					320

Asn	Pro	Leu	Pro	Ser	Gly	Pro	Pro	Leu	Pro	Ser	Ile	Leu	Ser	Ile	Gln	
				325					330					335		
Ala	Thr	Gln	Thr	Val	Phe	Pro	Ser	Leu	Gly	Phe	Ser	Ser	Thr	Lys	Pro	
			340					345					350			
Glu	Ala	Tyr	Ala	Ala	Ala	Val	Asp	His	Ser	Gly	Leu	Pro	Ala	Ser	Ala	
		355					360					365				
Ser	Lys	Gln	Val	Arg	Ala	Ser	Pro	Ser	Ser	Met	Asp	Val	Tyr	Asp	Ser	
	370					375					380					
Leu	Thr	Ile	Gly	Asp	Met	Lys	Lys	Pro	Ala	Thr	Thr	Asp	Val	Phe	Trp	
385					390					395					400	
Ser	Ser	Leu	Ser	Ala	Glu	Thr	Gly	Ser	Leu	Ser	Thr	Glu	Ser	Ile	Ile	
				405					410					415		
Ser	Gly	Leu	Gln	Gln	Gln	Thr	Asn	Tyr	Asp	Leu	Asn	Gly	His	Thr	Ile	
			420					425					430			
Ser	Thr	Thr	Ser	Trp	Glu	Thr	His	Leu	Ala	Pro	Thr	Ala	Pro	Pro	Asn	
		435					440					445				
Gly	Leu	Thr	Ser	Ala	Ala	Asp	Ala	Ile	Lys	Ser	Gln	Asp	Phe	Lys	Asp	
	450					455					460					
Thr	Ala	Gly	His	Ser	Val	Thr	Ala	Glu	Gly	Phe	Ser	Ile	Gln	Asp	Leu	
465					470					475					480	
Val	Leu	Gly	Thr	Ser	Ile	Glu	Gln	Pro	Val	Gln	Gln	Ser	Asp	Met	Thr	
				485					490					495		
Met	Val	Gly	Ser	His	Ile	Asp	Leu	Trp	Pro	Thr	Ser	Asn	Asn	Asn	His	
			500					505					510			
Ser	Arg	Asp	Phe	Gln	Thr	Ala	Glu	Val	Ala	Tyr	Tyr	Ser	Pro	Thr	Thr	
		515					520					525				
Arg	His	Ser	Val	Ser	His	Pro	Gln	Leu	Gln	Leu	Pro	Asn	Gln	Pro	Ala	
	530					535					540					
His	Pro	Leu	Leu	Leu	Thr	Ser	Pro	Glv	Pro	Thr	Ser	Thr	Glv	Ser	Leu	

545					550					555					560
Gln	Glu	Met	Leu	Ser	Asp	Gly	Thr	Asp	Thr	Gly	Ser	Glu	Ile	Ser	Ser
				565					570					575	
Asp	Ile	Asn	Ser	Ser	Pro	Glu	Arg	Asn	Ala	Ser	Thr	Pro	Phe	Gln	Asn
			580					585					590		
Ile	Leu	Gly	Tyr	His	Ser	Ala	Ala	Glu	Ser	Ser	Ile	Ser	Thr	Ser	Val
		595					600					605			
Phe	Pro	Arg	Thr	Ser	Ser	Arg	Val	Leu	Arg	Ala	Ser	Gln	His	Pro	Lys
	610					615					620				
Lys	Trp	Thr	Gly	Ala	Ala	Thr	Asn	Ala	Ala	Asp	Thr	Val	Ser	Ser	Lys
625					630					635	,				640
Val	Gln	Pro	Thr	Ala	Ala	Ala	Ala	Val	Thr	Leu	Phe	Leu	Arg	Lys	Ser
				645					650					655	
Ser	Pro	Pro	Ala	Leu	Ser	Ala	Ala	Leu	Val	Ala	Lys	Gly	Thr	Ser	Ser
			660					665					670		
Ser	Pro	Leu	Ala	Val	Ala	Ser	Gly	Pro	Ala	Lys	Ser	Ser	Ser	Met	Thr
		675					680					685			
Thr	Leu	Ala	Lys	Asn	Val	Thr	Asn	Lys	Ala	Ala	Ser	Gly	Pro	Lys	Arg
	690					695					700				
Thr	Pro	Gly	Ala	Val	His	Thr	Ala	Phe	Pro	Phe	Thr	Pro	Thr	Tyr	Met
705					710					715					720
Tyr	Ala	Arg	Thr	Gly	His	Thr	Thr	Ser	Thr	His	Thr	Ala	Met	Gln	Gly
				725					730					735	
Asn	Met	Asp	Thr	Ala	Ser	Gly	Leu	Leu	Ser	Thr	Thr	Tyr	Leu	Pro	Arg
			740					745					750		
Lys	Pro	Gln	Ala	Met	His	Thr	Gly	Leu	Pro	Asn	Pro	Thr	Asn	Leu	Glu
		755					760					765			
Met	Pro	Arg	Ala	Ser	Thr	Pro	Arg	Pro	Leu	Thr	Val	Thr	Ala	Ala	Leu
	770					775					780				

Thr	Ser	Ile	Thr	Ala	Ser	Val	Lys	Ala	Thr	Arg	Leu	Pro	Pro	Leu	Arg
785					790					795					800
Ala	Glu	Asn	Thr	Asp	Ala	Val	Leu	Pro	Ala	Ala	Ser	Ala	Ala	Val	Val
				805					810					815	
Thr	Thr	Gļy	Lys	Met	Ala	Ser	Asn	Leu	Glu	Cys	Gln	Met	Ser	Ser	Lys
			820					825					830		
Leu	Leu	Val	Lys	Thr	Val	Leu	Phe	Leu	Thr	Gln	Arg	Arg	Val	Gln	Ile
		835					840					845			
Ser	Glu	Ser	Leu	Lys	Phe	Ser	Ile	Ala	Lys	Gly	Leu	Thr	Gln	Ala	Leu
	850					855					860				
Arg	Lys	Ala	Phe	His	Gln	Asn	Asp	Val	Ser	Ala	His	Val	Asp	Ile	Leu
865			*		870					875					880
Glu	Tyr	Ser	His	Asn	Val	Thr	Val	Gly	Tyr	Tyr	Ala	Thr	Lys	Gly	Lys
				885					890					895	
Leu	Val	Tyr	Leu	Pro	Ala	Val	Val	Ile	Glu	Met	Leu	Gly	Val	Tyr	Gly
			900					905					910		
Val	Ser	Asn	Val	Thr	Ala	Asp	Leu	Lys	Gln	His	Thr	Pro	His	Leu	Gln
		915					920					925			
Ser	Val	Ala	Val	Leu	Ala	Ser	Pro	Trp	Asn	Pro	Gln	Pro	Ala	Gly	Tyr
	930					935					940				
Phe	Gln	Leu	Lys	Thr	Val	Leu	Gln	Phe	Val	Ser	Gln	Ala	Asp	Asn	Ile
945					950					955					960
Gln	Ser	Cys	Lys	Phe	Ala	Gln	Thr	Met	Glu	Gln	Arg	Leu	Gln	Lys	Ala
				965					970					975	
Phe	Gln	Asp	Ala	Glu	Arg	Lys	Val	Leu	Asn	Thr	Lys	Ser	Asn	Leu	Thr
			980					985					990		
Ile	Gln	Ile	Val	Ser	Thr	Ser	Asn	Ala	Ser	Gln	Ala	Val	Thr	Leu	Val
		995				-	1000				-	1005			
Tvr	Val	Val	Glv	Asn	Gln	Ser	Thr	Phe	Leu	Asn	Glv	Thr	Val	Ala	Ser

Ser Leu Leu Ser Gln Leu Ser Ala Glu Leu Val Gly Phe Tyr Leu Thr Tyr Pro Pro Leu Thr Ile Ala Glu Pro Leu Glu Tyr Pro Asn Leu Asp Ile Ser Glu Thr Thr Arg Asp Tyr Trp Val Ile Thr Val Leu Gln Gly Val Asp Asn Ser Leu Val Gly Leu His Asn Gln Ser Phe Ala Arg Val Met Glu Gln Arg Leu Ala Gln Leu Phe Met Met Ser Gln Gln Gln Gly Arg Arg Phe Lys Arg Ala Thr Thr Leu Gly Ser Tyr Thr Val Gln Met Val Lys Met Gln Arg Val Pro Gly Pro Lys Asp Pro Ala Glu Leu Thr Tyr Tyr Thr Leu Tyr Asn Gly Lys Pro Leu Leu Gly Thr Ala Ala Ala Lys Ile Leu Ser Thr Ile Asp Ser Gln Arg Met Ala Leu Thr Leu His His Val Val Leu Leu Gln Ala Asp Pro Val Val Lys Asn Pro Pro Asn Asn Leu Trp Ile Ile Ala Ala Val Leu Ala Pro Ile Ala Val Val Thr Val Ile Ile Ile Ile Thr Ala Val Leu Cys Arg Lys Asn Lys Asn Asp Phe Lys Pro Asp Thr Met Ile Asn Leu Pro Gln Arg Ala Lys Gln Val Ala Gln 

<210> 2209 <211> 155 <212> PRT <213> Homo sapiens <400> 2209 Met Ser Ile Thr Ser Thr Val Lys Ala Ser Leu Cys Ser Gly Val Val Ser His Phe Pro Lys Ile Asn Thr Val Asn Thr Asp Glu His Cys Cys Leu Tyr Val Met Ser Glu Ile Pro His Pro Phe Met His Lys Tyr Val Cys Ile Tyr Ala Tyr Thr Phe Thr His Ile Tyr Arg His Leu Phe Ile Tyr Thr Cys Lys Tyr Val Tyr Tyr Ile His Val Tyr Cys Ile Gly Leu Glu Lys Ser Lys His Phe Lys Ser Met Leu Ile Ile Cys Ile Cys Leu Val Asn Thr Ser Arg Gln Arg Gln Val Lys Gln Arg Ser Ser Ile Tyr Phe Phe Val Ser Thr Ile Ala Arg Leu Arg Ser Val Met Ala Leu Leu Gln Leu His Leu Ala Phe Ser Ile Thr Cys Val Ile Lys Phe Met Thr

Lys Ser Ser Cys Asn Cys Leu Cys Cys Leu Pro

<210> 2210

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2210

Met Thr Asp Leu Trp Thr Arg Gly Phe Pro Ala Ser Pro Leu Ile Pro

1 5 10 15

Ala Asp Leu Trp Ala Ser Phe His Gly Tyr Arg Arg Lys Ser Lys Val 20 25 30

Ser Leu Gln Ala Ala Val Pro Leu Gly Ser Gln Leu Cys Pro Ser Phe 35 40 45

Ser Ser Pro Gln Gly Gly Cys Pro Ile Pro Glu Pro Pro Trp Ala Pro
50 55 60

Ala Ser Ala Gly Pro Tyr Val Cys Gly Leu Gly Phe Cys Pro Pro Val 65 70 75 80

Leu Val Leu Ile Cys Ser Leu Trp Phe Cys Ser Phe Phe His Pro Pro 85 90 95

Thr His Leu Gly Pro Ser Ser His

100

<210> 2211

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2211

Met Ser Ser Asp Gln Ala Gln His Cys His Gln Asp Asp Lys Gly Gln
1 5 10 15
Gly Val Arg Ser Gln Pro Pro Pro Thr Phe Leu Ser Ser Gly Leu Arg
20 25 30
Arg Arg Lys Gly Pro Thr Lys Thr Pro Glu Pro Glu Ser Ser Glu Ala
35 40 45
Pro Gln Asp Pro Leu Asn Trp Phe Gly Ile Leu Val Pro His Ser Leu
50 55 60
Arg Gln Ala Gln Ala Ser Phe Arg Asp Gly Glu Trp Thr Val Leu Phe
65 70 75 80
Gly Ser Val Ala Leu Arg Pro Ser Ile His Arg Glu His Leu Ser Thr
85 90 95
Ala Ala Met Ala Gly Val Ser Leu
100
<210> 2212
<211> 120
<212> PRT
<213> Homo sapiens
<400> 2212
Met Arg Arg Ala Gly Ser Thr Arg Cys Ser Leu Ala Pro Gly Arg Lys
1 5 10 15
Ala Glu Glu Pro Gly Asn His Val Pro Ser Trp Lys Glu Ala Leu Arg
20 25 30
Thr Leu Leu Pro Arg Asn Pro Glu Gln Arg Leu Ala Gly Leu Gln Glu

40

Gln Ser Arg Val Arg Ala Val Ser Trp Gln Arg Ile Lys Tyr Pro Gly

35

45

50 55 60 His Ile Glu Glu Thr Cys Glu Asp Ser Asn Gly Glu Gln Phe Glu Ser 70 65 75 Glu Lys Pro Val Leu Glu Ala Arg Lys Phe Lys Ile Lys Val Leu Ala 85 90 95 Ser Ser Val Ser Ala Glu Asp Leu Ile Ser Leu Leu Ser Arg Trp His 100 105 110 Leu Val Ala Leu Pro Ser Arg Glu 115 120

<210> 2213

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2213

Met Ser His His Ala Arg Leu Ser Leu Leu Asn Phe Arg Thr Ile Thr

1 5 10 15

Val Tyr Phe Tyr Phe Leu Asn Tyr His Ile Val Lys Leu Ala Leu Trp
20 25 30

Leu Cys Ser Phe Met Cys Phe Asp Val Cys Ile Asp Gly Cys His Asn
35 40 45

Gln Glu Arg Glu His Ser Pro Lys Pro Arg Asp Val His Gly Ala Ile
50 55 60

Leu His Ser Met Phe Leu Gly Ser His Ser Ala Pro Ser Pro Lys His 65 70 75 80

Gly Ala Pro Ala Cys Arg Cys His Arg Arg Gln His His Gly Leu Leu 85 90 95 Asn Thr Val Arg His Ser Ser Ser Lys Gly
100 105

<210> 2214

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2214

Met Tyr Ser Leu Asn Gln Ser Phe Phe Cys Pro Gln Leu Glu Ile Phe

1 5 10 15

Leu Ala Gln Arg Ala Val Glu Leu Ser Glu Glu Ala Asp Val Leu Ser

20 25 30

Val Ser Gln Phe Gln Leu Ala Pro Ala Ile Leu Gln Gly Gln Thr Lys

35 40 45

Glu Lys Met Val Thr Met Val Ser Val Leu Glu Asp Leu Ile Gly Lys

50 55 60

Leu Thr Ser Leu Gln Leu Gln His Leu Phe Met Ile Leu Ala Ser Pro

65 70 75 80

Arg Ser Gly Phe Pro Leu Met Gln Gly Ser Ala Ile Leu Ser Ser Ser

85 90 95

Ala Ser Leu Tyr Ser Ser Ser Cys Ser Met Thr Pro

100 105

<210> 2215

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2215

Met His His Ser Trp Leu Ile His Pro Leu Leu Asp Gly His Leu Ala

1 5 10 15

Cys Phe Gln Val Phe Ala Val Ser Asp Thr Ala Ser Ile Asp Cys Phe

20. 25 30

Leu Ser Val Ser Glu Pro Leu Ser Arg Leu Leu Gly Lys Gln Cys Pro

35 40 45

Ser Phe Phe Pro Ser Phe Trp Ile Gly Phe Leu Pro Ala Glu Val Leu

50 55 60

Gly Val Trp Phe Gly His Gly Cys Gly Ser Thr Trp Ser Leu Ser Ser

65 70 75 80

Gly Leu Ile Gln Arg Gly Arg Ser Gly Glu Glu Gly Ser Val Gln Gly

85 90 95

Lys Ser Arg Leu Gly His Gly Val Ser Leu Val Gly Gln

100 105

<210> 2216

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2216

Met Glu Ile Gln Met Ser Lys Ser Ser Gln Asn Ser Lys Leu Leu Ile

1 5 10 15

Pro Val Leu Arg Leu Cys Ser Tyr Ser Asp Glu Ser Val Val Leu Val

20 25 30

Arg Gly Leu Ala Arg Arg Pro Val Gly Trp Asn Gly Ala Arg Lys Val 40 35 45 Asn His Lys Leu Leu Val His Arg Gly Thr Arg Ile Ile Gln Gly Gly 50 55 60 Gly Ile Val Leu Ser Thr Gly Gly Ser Gly Asn Arg Val Phe Thr Gly 75 70 80 65 Lys Met Val Asn Val Asn Pro Cys Ile Ile Cys Lys Lys Leu Phe Glu 95 85 90 Thr Gly His Lys Asn 100

<210> 2217

<211> 809

<212> PRT

<213> Homo sapiens

<400> 2217

Met Leu Tyr Pro Ala Leu Ala Lys Glu Ser Gly Tyr Ile Ala Pro Gln

1 5 10 15

Gly Ala Cys Asn Lys Met Ala Thr Ile Asp Glu Asn Gly Asn Gln Asn
20 25 30

Gly Ser Gly Arg Pro Gly Phe Ala Phe Cys Gln Pro Leu Glu His Asp
35 40 45

Leu Leu Ser Pro Val Glu Lys Lys Pro Glu Ala Thr Ala Lys Tyr Val
50 55 60

Pro Ser Lys Val His Phe Cys Ser Val Pro Glu Asn Glu Glu Asp Ala 65 70 75 80

Ser Leu Lys Arg His Leu Thr Pro Pro Gln Gly Asn Ser Pro His Ser

				85					90					95	
Asn	Glu	Arg	Lys	Ser	Thr	His	Ser	Asn	Lys	Pro	Ser	Ser	His	Pro	His
			100					105					110		
Ser	Leu	Lys	Cys	Pro	Gln	Ala	Gln	Ala	Trp	Gln	Ala	Gly	Glu	Asp	Lys
		115					120					125			
Arg	Ser	Ser	Arg	Leu	Ser	Glu	Pro	Trp	Glu	Gly	Asp	Phe	Gln	Glu	Asp
	130					135					140				
His	Asn	Ala	Asn	Leu	Trp	Arg	Arg	Leu	Glu	Arg	Glu	Gly	Leu	Gly	Gln
145					150					155					160
Ser	Leu	Ser	Gly	Asn	Phe	Gly	Lys	Thr	Lys	Ser	Ala	Phe	Ser	Ser	Leu
				165					170					175	
Gln	Asn	Ile	Pro	Glu	Ser	Leu	Arg	Arg	His	Ser	Ser	Leu	Glu	Leu	Gly
			180					185					190		
Arg	Gly	Thr	Gln	Glu	Gly	Tyr	Pro	Gly	Gly	Arg	Pro	Thr	Cys	Ala	Val
		195					200					205			
Asn	Thr	Lys	Ala	Glu	Asp	Pro	Gly	Arg	Lys	Ala	Ala	Pro	Asp	Leu	Gly
	210					215					220				
Ser	His	Leu	Asp	Arg	Gln	Val	Ser	Tyr	Pro	Arg	Pro	Glu	Gly	Arg	Thr
225					230					235					240
Gly	Ala	Ser	Ala	Ser	Phe	Asn	Ser	Thr	Asp	Pro	Ser	Pro	Glu	Glu	Pro
				245					250			•		255	
Pro	Ala	Pro	Ser	His	Pro	His	Thr	Ser	Ser	Leu	Gly	Arg	Arg	Gly	Pro
			260					265					270		
Gly	Pro	Gly	Ser	Ala	Ser	Ala	Leu	Gln	Gly	Phe	Gln	Tyr	Gly	Lys	Pro
		275					280					285			
His	Cys	Ser	Val	Leu	Glu	Lys	Val	Ser	Lys	Phe	Glu	Gln	Arg	Glu	Glr
	290					295					300				
Gly	Ser	Gln	Arg	Pro	Ser	Val	Gly	Gly	Ser	Gly	Phe	Gly	His	Asn	Tyr
305					310					315					320

Arg	Pro	His	Arg	Thr	Val	Ser	Thr	Ser	Ser	Thr	Ser	Gly	Asn	Asp	Phe
				325					330					335	
Glu	Glu	Thr	Lys	Ala	His	Ile	Arg	Phe	Ser	Glu	Ser	Ala	Glu	Pro	Leu
			340					345					350		
Gly	Asn	Gly	Glu	Gln	His	Phe	Lys	Asn	Gly	Glu	Leu	Lys	Leu	Glu	Glu
		355					360					365			
Ala	Ser	Arg	Gln	Pro	Cys	Gly	Gln	Gln	Leu	Ser	Gly	Gly	Ala	Ser	Asp
	370					375					380				
Ser	Gly	Arg	Gly	Pro	Gln	Arg	Pro	Asp	Ala	Arg	Leu	Leu	Arg	Ser	Gln
385					390					395					400
Ser	Thr	Phe	Gln	Leu	Ser	Ser	Glu	Pro	Glu	Arg	Glu	Pro	Glu	Trp	Arg
				405					410					415	
Asp	Arg	Pro	Gly	Ser	Pro	Glu	Ser	Pro	Leu	Leu	Asp	Ala	Pro	Phe	Ser
			420					425					430		
Arg	Ala	Tyr	Arg	Asn	Ser	Ile	Lys	Asp	Ala	Gln	Ser	Arg	Val	Leu	Gly
		435					440					445			
Ala	Thr	Ser	Phe	Arg	Arg	Arg	Asp	Leu	Glu	Leu	Gly	Ala	Pro	Val	Ala
	450					455					460				•
Ser	Arg	Ser	Trp	Arg	Pro	Arg	Pro	Ser	Ser	Ala	His	Val	Gly	Leu	Arg
465					470					475					480
Ser	Pro	Glu	Ala	Ser	Ala	Ser	Ala	Ser	Pro	His	Thr	Pro	Arg	Glu	Trp
				485					490					495	
His	Ser	Val	Thr	Pro	Ala	Glu	Gly	Asp	Leu	Ala	Arg	Pro	Val	Pro	Pro
			500					505					510		
Ala	Ala	Arg	Arg	Gly	Ala	Arg	Arg	Arg	Leu	Thr	Pro	Glu	Gln	Lys	Lys
		515					520					525			
Arg	Ser	Tyr	Ser	Glu	Pro	Glu	Lys	Met	Asn	Glu	Val	Gly	Ile	Val	Glu
	530					535					540				
Glu	Ala	Glu	Pro	Ala	Pro	Leu	Gly	Pro	Gln	Arg	Asn	Gly	Met	Arg	Phe

5	45					550					555					560
F	ro	Glu	Ser	Ser	Val	Ala	Asp	Arg	Arg	Arg	Leu	Phe	Glu	Arg	Asp	Gly
					565					570					575	
L	ys	Ala	Cys	Ser	Thr	Leu	Ser	Leu	Ser	Gly	Pro	Glu	Leu	Lys	Gln	Phe
				580					585					590		
G	lln	Gln	Ser	Ala	Leu	Ala	Asp	Tyr	Ile	Gln	Arg	Lys	Thr	Gly	Lys	Arg
			595					600					605			
P	ro	Thr	Ser	Ala	Ala	Gly	Cys	Ser	Leu	Gln	Glu	Pro	Gly	Pro	Leu	Arg
		610					615					620				
(	llu	Arg	Ala	Gln	Ser	Ala	Tyr	Leu	Gln	Pro	Gly	Pro	Ala	Ala	Leu	Glu
6	25					630					635					640
(	ly	Ser	Gly	Leu	Ala	Ser	Ala	Ser	Ser	Leu	Ser	Ser	Leu	Arg	Glu	Pro
					645					650					655	
S	Ser	Leu	Gln	Pro	Arg	Arg	Glu	Ala	Thr	Leu	Leu	Pro	Ala	Thr	Val	Ala
				660					665					670		
0	llu	Thr	Gln	Gln	Ala	Pro	Arg	Asp	Arg	Ser	Ser	Ser	Phe	Ala	Gly	Gly
			675					680					685			
A	rg	Arg	Leu	Gly	Glu	Arg	Arg	Arg	Gly	Asp	Leu	Leu	Ser	Gly	Ala	Asn
		690					695			•		700				
0	lly	Gly	Thr	Arg	Gly	Thr	Gln	Arg	Gly	Asp	Glu	Thr	Pro	Arg	Glu	Pro
7	'05					710					715					720
S	Ser	Ser	Trp	Gly	Ala	Arg	Ala	Gly	Lys	Ser	Met	Ser	Ala	Glu	Asp	Leu
					725					730					735	
I	eu	Glu	Arg	Ser	Asp	Val	Leu	Ala	Gly	Pro	Val	His	Val	Arg	Ser	Arg
				740					745					750		
S	er	Ser	Pro	Ala	Thr	Ala	Asp	Lys	Arg	Gln	Val	Arg	Ala	Thr	Ser	Lys
			755					760					765			
S	Ser	Trp	Pro	Arg	Thr	Val	Pro	Ser	Ser	Leu	Glu	Ala	Leu	Val	Gly	Leu
		770					775					780				

Pro Asn Pro Pro His Ser His Pro Leu Ser Gln Phe Ser Phe Pro Cys
785 790 795 800
Asp Tyr Arg Lys Val Ala Phe Val Phe
805

<210> 2218

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2218

Met Val Ile Phe Gln Phe Ile Ser Cys Asp Leu Ser Ala Val Phe Asn
1 5 10 15

Val Leu Asn Phe Phe IIe Phe Arg Asn Arg Val Ser Leu Cys Cys Pro
20 25 30

Cys Trp Ser Gln Thr Pro Gly Leu Lys Cys Ser Cys Leu Gly Leu Pro
35 40 45

Lys His Trp Asp Tyr Arg His Glu Pro Leu Leu Pro Gly Leu Cys Leu 50 55 60

Met Phe Leu Thr Gly Leu Leu Leu Asn Ser Phe Asn Leu Ala Ser Leu 65 70 75 80

Ile Pro Leu Ala Pro Val Ser Leu Leu Pro Pro Arg Glu Leu Leu Cys
85 90 95

Pro Pro Leu Phe Pro Asn Tyr Gly His Val Ile Lys Ala Phe Pro 100 105 110

Arg Pro Leu Leu Pro Arg Cys Asp Tyr Leu His Ser Ser Asp Leu Ile 115 120 125

Tyr Thr Pro Asp Leu Leu Gln Thr Val Phe

130 135

<210> 2219

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2219

Met Leu Asn Trp Ile Ile Arg Leu Gln Ala Ile Leu Glu Ile Ile Thr

1 5 10 15

Asn Glu Thr Gly Arg Ala Leu Thr Val Leu Ala Trp Gln Glu Thr Gln

20 25 30

Met Arg Asn Ala Ile Tyr Gln Asn Arg Leu Ala Leu Asp Tyr Leu Leu

35 40 45

Val Ala Glu Gly Gly Val Cys Gly Lys Phe Asn Leu Thr Asn Cys Cys

50 55 60

Leu Gln Ile Asn Asp Gln Gly Gln Val Val Lys Asn Ile Val Arg Asp

65 70 75 80

Met Thr Lys Val Ala His Val Pro Val Gln Val Trp His Glu Phe Asn

85 90 95

Pro Glu Ser Leu Phe Glu Lys Trp Phe Pro Ala Ile Ala Gly Phe Lys

100 105 110

Thr Leu Ile Val Gly Gly Leu Leu Val Ile Gly Ala Cys Leu Leu Leu

115 120 125

Pro Cys Val Leu Pro Leu Leu Phe Gln Met Ile Lys Gly Phe Val Ala

130 135 140

Thr Leu Val His Gln Lys Thr Ser Ala His Val Cys Tyr Ile Asn Gln

145 150 155 160

Tyr Arg Ser Ile Ser Pro Ile Asp Ser Lys Ser Lys Asp Glu Ser Glu
165 170 175

Asn Ser His

<210> 2220

<211> 181

<212> PRT

<213> Homo sapiens

<400> 2220

Met Gln Arg Thr Gly Phe Gln Lys Pro Gln Lys Leu Glu Glu Pro His

1 5 10 15

Arg His Ala Leu Cys Pro Pro Thr Val Ser Gly Ala Ser Ser Asn Pro
20 25 30

Cys Ser Glu Thr Tyr His Gly Lys Phe Ala Asn Ser Glu Val Glu Val
35 40 45

Lys Ser Ile Val Asp Phe Val Lys Asp His Gly Asn Ile Lys Ala Phe
50 55 60

Ile Ser Ile His Ser Tyr Ser Gln Leu Leu Met Tyr Pro Tyr Gly Tyr
65 70 75 80

Lys Thr Glu Pro Val Pro Asp Gln Asp Glu Leu Asp Leu Leu Ser Lys

85

90

95

Ala Ala Val Thr Ala Leu Ala Ser Leu Tyr Gly Thr Lys Phe Asn Tyr

100 105 110

Gly Ser Ile Ile Lys Ala Ile Tyr Gln Ala Ser Gly Ser Thr Ile Asp 115 120 125

Trp Thr Tyr Ser Gln Gly Ile Lys Tyr Ser Phe Thr Phe Glu Leu Arg

140 130 135 Asp Thr Gly Arg Tyr Gly Phe Leu Leu Pro Ala Ser Gln Ile Ile Pro 150 155 160 145 Thr Ala Lys Glu Thr Trp Leu Ala Leu Leu Thr Ile Met Glu His Thr 170 175 165 Leu Asn His Pro Tyr 180 <210> 2221 <211> 223 <212> PRT <213> Homo sapiens <400> 2221 Met Gly Ala Gly Gly Gly Ser Gln His Gly Leu Arg Gln Val Ser Arg 1 5 10 15 Met Glu Met Gly Gly Gly Pro Ser Gly Ser Ala Met Cys Ser Glu Ala 20 25 30 Gly Val Gly Val Arg Thr Pro Pro Gln Gly Ala Gly Ala Gln Ser Trp 35 40 45 Leu Gly Ser Leu Pro Gly Cys Gly Ala Gly Ala Gly Pro Trp Ala Ala 50 60 55 Leu Gly Arg Arg Ile Gly Arg Leu Ala Leu Trp Ala Ala Pro Arg

65 70 75 80

Arg Ser Gly Gly Pro Arg Arg Thr Ser Glu Val Gly Gly Ser Arg Pro
85 90 95

His Arg Gly Met Phe Trp Arg Ser Arg Glu Gln Ser Pro Arg Ala Arg
100 105 110

Gly Gly Arg Gly Thr Val Gln Val Pro Gly Ala Gly Val Ser Gly Thr 120 115 125 Val Pro Gly Thr Arg Trp Ser Ala Val Gly Pro Cys Gly Glu Arg Arg 130 135 140 Pro Leu Ala Arg Gly Arg Arg Thr Glu Ala Gly Gly Glu Gly Glu Pro 150 155 160 145 Gly Arg Gly Thr Val Val Pro Gly Ala Ala Leu Arg Val Gly Thr Trp 165 170 175 Arg Ser Cys Ala Pro Trp Arg Gly Gly Glu Ala Gly Glu Arg Pro 180 185 190 Trp Leu Leu Pro Pro Gly Val Pro Arg Val Thr Ala Ala Ala Ile 195 200 205 Leu Pro Asn Thr Asp Pro Pro Pro Ala Pro Ala Asp Ser Gly Val 210 215 220

<210> 2222

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2222

Met Phe Leu Thr Cys Ser Trp Gly Phe Ser Gln Gln Tyr Ser Gly His

1 5 10 15

Phe Pro Ser Cys Gly Ser Thr Val Cys Asn Ala Gly Leu Gln Val Ala
20 25 30

Glu Glu Asp Gly Ala Glu Glu Ser His Met Gly Val Cys Leu Ala Gln
35 40 45

Gly Gly Ser Gly Cys Ala Phe Leu Leu Pro Thr Ser Leu Thr Arg Pro

His Pro Thr Ala Arg Glu Ala Gly Glu Cys Gly Leu Asp Leu Asn Pro 65 70 75 80

Arg Arg Arg Asn Gly Phe Leu Asn Ser Trp Pro Phe Thr Asp Thr Lys 85 90 95

Arg Val Lys Val Thr Cys Arg Gly Asp Glu Phe 100 105

<210> 2223

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2223

Met Arg Gly His Ala Asp Ser Val Thr Gly Leu Ser Leu Ser Ser Glu

1 5 10 15

Gly Ser Tyr Leu Leu Ser Asn Ala Met Asp Asn Thr Val Arg Val Trp
20 25 30

Asp Val Arg Pro Phe Ala Pro Lys Glu Arg Cys Val Lys Ile Phe Gln
35 40 45

Gly Asn Val His Asn Phe Glu Lys Asn Leu Leu Arg Cys Ser Trp Ser 50 55 60

Pro Asp Gly Ser Lys Ile Ala Ala Gly Ser Ala Asp Arg Phe Val Tyr 65 70 75 80

Val Trp Asp Thr Thr Ser Arg Ile Leu Tyr Lys Leu Pro Gly His
85 90 95

Ala Gly Ser Ile Asn Glu Val Ala Phe His Pro Asp Glu Pro Ile Ile 100 105 110 Ile Ser Ala Ser Ser Asp Lys Arg Leu Tyr Met Gly Glu Ile Gln
115 120 125

<210> 2224

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2224

Met Arg Ala Phe Leu Pro Ser Ala Arg His Ser Gly Phe Leu Thr Cys

1 5 10 15

Thr Leu Thr Ala Arg Gln Asn Leu Gly Val His Lys Lys Asp Leu Arg
20 25 30

Trp Asp Met Glu Glu Gln Gly Pro Leu Leu Val Cys Pro Pro Ser Pro

35 40 45

His Leu His Ser Ser Pro Asn Leu Pro Leu Gln Ser Arg Glu Lys Thr
50 55 60

Ser Glu Asn Ile Arg Ser Asp Ser Thr Glu Ala Gln Thr Gly Gln Gln 65 70 75 80

Glu Cys Ala Gly His Trp Glu Met Trp Ser Arg Ser Ser His Ser Pro 85 90 95

Tyr Arg Pro Pro Thr Asn Tyr Arg Asn Ala Lys Ser Ala Gln Pro Leu
100 105 110

Pro Thr

<210> 2225

<211> 226

<212> PRT

<213> Homo sapiens

<400> 2225

Met Tyr Cys Cys Arg Val Thr Ser Gln Ser Leu Gln Leu Pro Tyr Gly

1 5 10 15

Pro Ser Val Met Val Gly Phe Ser Pro Leu Gln Lys His Gly Leu Val
20 25 30

Ile Ile Pro Asp Gly Thr Pro Asn Gly Asp Val Ser His Glu Pro Val
35 40 45

Ala Gly Ala Ile Thr Val Val Ser Gln Glu Ala Ala Gln Val Leu Glu
50 55 60

Ser Ala Gly Glu Gly Pro Leu Asp Val Arg Leu Arg Lys Leu Ala Gly
65 70 75 80

Glu Lys Glu Glu Leu Leu Ser Gln Ile Arg Lys Leu Lys Leu Gln Leu 85 90 95

Glu Glu Glu Arg Gln Lys Cys Ser Arg Asn Asp Gly Thr Val Gly Asp 100 105 110

Leu Ala Gly Leu Gln Asn Gly Ser Asp Leu Gln Phe Ile Glu Met Gln
115 120 125

Arg Asp Ala Asn Arg Gln Ile Ser Glu Tyr Lys Phe Lys Leu Ser Lys
130 135 140

Ala Glu Gln Asp Ile Thr Thr Leu Glu Gln Ser Ile Ser Arg Leu Glu
145 150 155 160

Gly Gln Val Leu Arg Tyr Lys Thr Ala Ala Glu Asn Ala Glu Lys Val 165 170 175

Glu Asp Glu Leu Lys Ala Glu Lys Arg Lys Leu Gln Arg Glu Leu Arg 180 185 190 Thr Ala Leu Asp Lys Ile Glu Glu Met Glu Met Thr Asn Ser His Leu Ala Lys Arg Leu Glu Lys Met Lys Ala Asn Arg Thr Ala Leu Leu Ala Gln Gln <210> 2226 <211> 462 <212> PRT <213> Homo sapiens <400> 2226 Met Phe Ile Ser Asp Ala Phe Gly Glu Gly Glu Leu Thr Pro Ile Ala 

Val Asp Thr Thr Ser Gln Arg Asn Ala Ser Pro Asn Ser Glu Pro Cys 

Ser Ser Asp Ser Val Ser Glu Pro Glu Cys Thr Thr Asp Ser Ser Ser 

Ser Lys Glu His Thr Ser Ser Ser Ala Ile Pro Gly Gly Val Asp Ile 

Met Val Ser Glu Asp Met Lys Leu Thr Asp Ser Glu Leu Gly Lys Leu 

Ala Asn Asn Ile Gln Glu Leu Leu Tyr Ser Ala Ser Asp Ile Cys His 

Asp Arg Ala Val Lys Phe Leu Met Ser Arg Ala Lys Asp Gly Phe Leu 

Glu Lys Leu Asn Ser Met Glu Phe Ile Thr Leu Ser Arg Leu Met Glu

		115					120					125			
Thr	Phe	Ile	Leu	Asp	Thr	Glu	Gln	Ile	Cys	Gly	Arg	Lys	Ser	Thr	Ser
	130					135					140				
Leu	Leu	Gly	Ala	Leu	Gln	Ser	Gln	Ala	Ile	Lys	Phe	Val	Asn	Arg	Phe
145					150					155					160
His	Glu	Glu	Arg	Lys	Thr	Lys	Leu	Ser	Leu	Leu	Leu	Asp	Asn	Glu	Arg
				165					170					175	
Trp	Lys	Gln	Ala	Asp	Val	Pro	Ala	Glu	Phe	Gln	Asp	Leu	Val	Asp	Ser
			180					185					190		
Leu	Ser	Asp	Gly	Lys	Ile	Ala	Ļeu	Pro	Glu	Lys	Lys	Ser	Gly	Ala	Thr
		195					200					205			
Glu	Glu	Arg	Lys	Pro	Ala	Glu	Val	Leu	Ile	Val	Glu	Gly	Gln	Gln	Туі
	210					215		:			220				
Ala	Val	Val	Gly	Thr	Val	Leu	Leu	Leu	Ile	Arg	Ile	Ile	Leu	Glu	Туз
225					230					235					240
Cys	Gln	Cys	Val	Asp	Asn	Ile	Pro	Ser	Val	Thr	Thr	Asp	Met	Leu	Thi
				245					250					255	
Arg	Leu	Ser	Asp	Leu	Leu	Lys	Tyr	Phe	Asn	Ser	Arg	Ser	Cys	Gln	Leu
			260					265					270		
Val	Leu	Gly	Ala	Gly	Ala	Leu	Gln	Val	Val	Gly	Leu	Lys	Thr	Ile	Thi
		275					280					285			
Thr	Lys	Asn	Leu	Ala	Leu	Ser	Ser	Arg	Cys	Leu	Gln	Leu	Ile	Val	His
	290					295					300				
Tyr	Ile	Pro	Val	Ile	Arg	Ala	His	Phe	Glu	Ala	Arg	Leu	Pro	Pro	Lys
305					310					315					320
Gln	Tyr	Ser	Met	Leu	Arg	His	Phe	Asp	His	Ile	Thr	Lys	Asp	Tyr	His
				325					330					335	
Asp	His	Ile	Ala	Glu	Ile	Ser	Ala	Lys	Leu	Val	Ala	Ile	Met	Asp	Ser
			340					345					350		

Leu Phe Asp Lys Leu Leu Ser Lys Tyr Glu Val Lys Ala Pro Val Pro 355 360 365 Ser Ala Cys Phe Arg Asn Ile Cys Lys Gln Met Thr Lys Met His Glu 375 380 370 Ala Ile Phe Asp Leu Leu Pro Glu Glu Gln Thr Gln Met Leu Phe Leu 390 395 400 385 Arg Ile Asn Ala Ser Tyr Lys Leu His Leu Lys Lys Gln Leu Ser His 405 410 415 Leu Asn Val Ile Asn Asp Gly Gly Pro Gln Asn Gly Leu Val Thr Ala 420 425 430 Asp Val Ala Phe Tyr Thr Gly Asn Leu Gln Ala Leu Lys Gly Leu Lys 435 440 445 Asp Leu Asp Leu Asn Met Ala Glu Ile Trp Glu Gln Lys Arg 450 455 460

<210> 2227

<211> 234

<212> PRT

<213> Homo sapiens

<400> 2227

Met Arg Ala Pro Leu Cys Leu Leu Leu Leu Val Ala His Ala Val Asp

1 5 10 15

Met Leu Ala Leu Asn Arg Arg Lys Lys Gln Val Gly Thr Gly Leu Gly

20 25 30

Gly Asn Cys Thr Gly Cys Ile Ile Cys Ser Glu Glu Asn Gly Cys Ser

35 40 45

Thr Cys Gln Gln Arg Leu Phe Leu Phe Ile Arg Arg Glu Gly Ile Arg

Gln Tyr Gly Lys Cys Leu His Asp Cys Pro Pro Gly Tyr Phe Gly Ile Arg Gly Gln Glu Val Asn Arg Cys Lys Lys Cys Gly Ala Thr Cys Glu Ser Cys Phe Ser Gln Asp Phe Cys Ile Arg Cys Lys Arg Gln Phe Tyr Leu Tyr Lys Gly Lys Cys Leu Pro Thr Cys Pro Pro Gly Thr Leu Ala His Gln Asn Thr Arg Glu Cys Gln Gly Glu Cys Glu Leu Gly Pro Trp Gly Gly Trp Ser Pro Cys Thr His Asn Gly Lys Thr Cys Gly Ser Ala Trp Gly Leu Glu Ser Arg Val Arg Glu Ala Gly Arg Ala Gly His Glu Glu Ala Ala Thr Cys Gln Val Leu Ser Glu Ser Arg Lys Cys Pro Ile Gln Arg Pro Cys Pro Gly Glu Arg Ser Pro Gly Gln Lys Lys Gly Arg Lys Asp Arg Arg Pro Arg Lys Asp Arg Lys Leu Asp Arg Arg Leu Asp Val Arg Pro Arg Gln Pro Gly Leu Gln Pro 

<210> 2228

<211> 436

<212> PRT

<213> Homo sapiens

<400> 2228

Met Leu Trp Asn Phe Lys Pro His Ala Arg Ala Tyr Arg Tyr Val Gly His Lys Asp Val Val Thr Ser Val Gln Phe Ser Pro His Gly Asn Leu Leu Ala Ser Ala Ser Arg Asp Arg Thr Val Arg Leu Trp Ile Pro Asp Lys Arg Gly Lys Phe Ser Glu Phe Lys Ala His Thr Ala Pro Val Arg Ser Val Asp Phe Ser Ala Asp Gly Gln Phe Leu Ala Thr Ala Ser Glu Asp Lys Ser Ile Lys Val Trp Ser Met Tyr Arg Gln Arg Phe Leu Tyr Ser Leu Tyr Arg His Thr His Trp Val Arg Cys Ala Lys Phe Ser Pro Asp Gly Arg Leu Ile Val Ser Cys Ser Glu Asp Lys Thr Ile Lys Ile Trp Asp Thr Thr Asn Lys Gln Cys Val Asn Asn Phe Ser Asp Ser Val Gly Phe Ala Asn Phe Val Asp Phe Asn Pro Ser Gly Thr Cys Ile Ala Ser Ala Gly Ser Asp Gln Thr Val Lys Val Trp Asp Val Arg Val Asn Lys Leu Leu Gln His Tyr Gln Val His Ser Gly Gly Val Asn Cys Ile Ser Phe His Pro Ser Gly Asn Tyr Leu Ile Thr Ala Ser Ser Asp Gly Thr Leu Lys Ile Leu Asp Leu Leu Glu Gly Arg Leu Ile Tyr Thr Leu

	210					215					220				
Gln	Gly	His	Thr	Gly	Pro	Ala	Phe	Thr	Val	Ser	Phe	Ser	Lys	Gly	Gly
225					230					235					240
Glu	Leu	Phe	Ala	Ser	Gly	Gly	Ala	Asp	Thr	Gln	Val	Leu	Leu	Trp	Arg
				245					250					255	
Thr	Asn	Phe	Asp	Glu	Leu	His	Cys	Lys	Gly	Leu	Thr	Lys	Arg	Asn	Leu
			260					265					270		
Lys	Arg	Leu	His	Phe	Asp	Ser	Pro	Pro	His	Leu	Leu	Asp	Ile	Tyr	Pro
		275					280					285			
Arg	Thr	Pro	His	Pro	His	Glu	Glu	Lys	Val	Glu	Thr	Val	Glu	Ile	Asn
	290					295					300				
Pro	Lys	Leu	Glu	Val	Ile	Asp	Leu	Gln	Ile	Ser	Thr	Pro	Pro	Val	Met
305					310					315					320
Asp	Ile	Leu	Ser	Phe	Asp	Ser	Thr	Thr	Thr	Thr	Glu	Thr	Ser	Gly	Arg
				325		•			330					335	
Thr	Leu	Pro	Asp	Lys	Gly	Glu	Glu	Ala	Cys	Gly	Tyr	Phe	Leu	Asn	Pro
			340					345					350		
Ser	Leu	Met	Ser	Pro	Glu	Cys	Leu	Pro	Thr	Thr	Thr	Lys	Lys	Lys	Thr
		355					360					365			
Glu	Asp	Met	Ser	Asp	Leu	Pro	Cys	Glu	Ser	Gln	Arg	Ser	Ile	Pro	Leu
	370					375					380				
Ala	Val	Thr	Asp	Ala	Leu	Glu	His	Ile	Met	Glu	Gln	Leu	Asn	Val	Leu
385					390					395					400
Thr	Gln	Thr	Val	Ser	Ile	Leu	Glu	Gln	Arg	Leu	Thr	Leu	Thr	Glu	Asp
				405					410					415	
Lys	Leu	Lys	Asp	Cys	Leu	Glu	Asn	Gln	Gln	Lys	Leu	Phe	Ser	Ala	Val
			420					425					430		
Gln	Gln	Lys	Ser												
		435													

<210> 2229 <211> 162 <212> PRT <213> Homo sapiens <400> 2229 Met Asn Ser Arg Thr Ala Ser Ala Arg Gly Trp Phe Ser Ser Arg Pro Pro Thr Ser Glu Ser Asp Leu Glu Pro Ala Thr Asp Gly Pro Ala Ser Glu Thr Thr Thr Leu Ser Pro Glu Ala Thr Thr Phe Asn Asp Thr Arg Ile Pro Asp Ala Ala Gly Gly Thr Ala Gly Val Gly Thr Met Leu Leu Ser Phe Gly Ile Ile Thr Val Ile Gly Leu Ala Val Ala Leu Val Leu Tyr Ile Arg Lys Lys Lys Arg Leu Glu Lys Leu Arg His Gln Leu Met Pro Met Tyr Asn Phe Asp Pro Thr Glu Glu Gln Asp Glu Leu Glu Gln Glu Leu Leu Glu His Gly Arg Asp Ala Ala Ser Val Gln Ala Ala Thr Ser Val Gln Ala Met Gln Gly Lys Thr Thr Leu Pro Ser Gln Gly Pro Leu Gln Arg Pro Ser Arg Leu Val Phe Thr Asp Val Ala Asn Ala Ile

His Val

<210> 2230

<211> 842

<212> PRT

<213> Homo sapiens

<400> 2230

Met Glu Arg Tyr Lys Ala Leu Glu Gln Leu Leu Thr Glu Leu Asp Asp

1 5 10 15

Phe Leu Lys Ile Leu Asp Gln Glu Asn Leu Ser Ser Thr Ala Leu Val

20 25 30

Lys Lys Ser Cys Leu Ala Glu Leu Leu Arg Leu Tyr Thr Lys Ser Ser

35 40 45

Ser Ser Asp Glu Glu Tyr Ile Tyr Met Asn Lys Val Thr Ile Asn Lys

50 55 60

Gln Gln Asn Ala Glu Ser Gln Gly Lys Ala Pro Glu Glu Gln Gly Leu

65 70 75 80

Leu Pro Asn Gly Glu Pro Ser Gln His Ser Ser Ala Pro Gln Lys Ser

85 90 95

Leu Pro Asp Leu Pro Pro Pro Lys Met Ile Pro Glu Arg Lys Gln Leu

100 105 110

Ala Ile Pro Lys Thr Glu Ser Pro Glu Gly Tyr Tyr Glu Glu Ala Glu

115 120 125

Pro Tyr Asp Thr Ser Leu Asn Gly His Ser Gly Gly Phe Leu Pro Thr

130 135 140

Gly Val Pro Arg Trp Val Gln Val Pro Glu Arg Val Ile Tyr Ala Thr

145 150 155 160

Ile	Thr	Leu	Glu	Asp	Gly	Glu	Ala	Val	Ser	Ser	Ser	Tyr	Glu	Ser	Tyr
				165					170					175	
Asp	Glu	Glu	Asp	Gly	Ser	Lys	Gly	Lys	Ser	Ala	Pro	Tyr	Gln	Trp	Pro
			180					185					190		
Ser	Pro	Glu	Ala	Gly	Ile	Glu	Leu	Met	Arg	Asp	Ala	Arg	Ile	Cys	Ala
		195					200					205			
Phe	Leu	Trp	Arg	Lys	Lys	Trp	Leu	Gly	Gln	Trp	Ala	Lys	Gln	Leu	Cys
	210					215					220				
Val	Ile	Lys	Asp	Asn	Arg	Leu	Leu	Cys	Tyr	Lys	Ser	Ser	Lys	Asp	His
225					230					235					240
Ser	Pro	Gln	Leu	Asp	Val	Asn	Leu	Leu	Gly	Ser	Ser	Val	Ile	His	Lys
				245					250					255	
Glu	Lys	Gln	Val	Arg	Lys	Lys	Glu	His	Lys	Leu	Lys	Ile	Thr	Pro	Met
			260					265					270		
Asn	Ala	Asp	Val	Ile	Val	Leu	Gly	Leu	Gln	Ser	Lys	Asp	Gln	Ala	Glu
		275					280					285			
Gln	Trp	Leu	Arg	Val	Ile	Gln	Glu	Val	Ser	Gly	Leu	Pro	Ser	Glu	Gly
	290					295					300				
Ala	Ser	Glu	Gly	Asn	Gln	Tyr	Thr	Pro	Asp	Ala	Gln	Arg	Phe	Asn	Cys
305					310					315					320
Gln	Lys	Pro	Asp	Ile	Ala	Glu	Lys	Tyr	Leu	Ser	Ala	Ser	Glu	Tyr	Gly
				325					330					335	
Ser	Ser	Val	Asp	Gly	His	Pro	Glu	Val	Pro	Glu	Thr	Lys	Asp	Val	Lys
			340					345					350		
Lys	Lys	Cys	Ser	Ala	Gly	Leu	Lys	Leu	Ser	Asn	Leu	Met	Asn	Leu	Gly
		355					360					365			
Arg	Lys	Lys	Ser	Thr	Ser	Leu	Glu	Pro	Val	Glu	Arg	Ser	Leu	Glu	Thi
	370					375					380				
Ser	Ser	Tyr	Leu	Asn	Val	Leu	Val	Asn	Ser	Gln	Trp	Lys	Ser	Arg	Trp

Cys Ser Val Arg Asp Asn His Leu His Phe Tyr Gln Asp Arg Asn Arg Ser Lys Val Ala Gln Gln Pro Leu Ser Leu Val Gly Cys Glu Val Val Pro Asp Pro Ser Pro Asp His Leu Tyr Ser Phe Arg Ile Leu His Lys Gly Glu Glu Leu Ala Lys Leu Glu Ala Lys Ser Ser Glu Glu Met Gly His Trp Leu Gly Leu Leu Leu Ser Glu Ser Gly Ser Lys Thr Asp Pro Glu Glu Phe Thr Tyr Asp Tyr Val Asp Ala Asp Arg Val Ser Cys Ile Val Ser Ala Ala Lys Asn Ser Leu Leu Leu Met Gln Arg Lys Phe Ser Glu Pro Asn Thr Tyr Ile Asp Gly Leu Pro Ser Gln Asp Arg Gln Glu Glu Leu Tyr Asp Asp Val Asp Leu Ser Glu Leu Thr Ala Ala Val Glu Pro Thr Glu Glu Ala Thr Pro Val Ala Asp Asp Pro Asn Glu Arg Glu Ser Asp Arg Val Tyr Leu Asp Leu Thr Pro Val Lys Ser Phe Leu His Gly Pro Ser Ser Ala Gln Ala Gln Ala Ser Ser Pro Thr Leu Ser Cys Leu Asp Asn Ala Thr Glu Ala Leu Pro Ala Asp Ser Gly Pro Gly Pro Thr Pro Asp Glu Pro Cys Ile Lys Cys Pro Glu Asn Leu Gly Glu Gln 

	Gln	Leu	Glu	Ser	Leu	Glu	Pro	Glu	Asp	Pro	Ser	Leu	Arg	Ile	Thr	Thr
	625					630					635					640
	Val	Lys	Ile	Gln	Thr	Glu	Gln	Gln	Arg	Ile	Ser	Phe	Pro	Pro	Ser	Cys
					645					650					655	
	Pro	Asp	Ala	Val	Val	Ala	Thr	Pro	Pro	Gly	Ala	Ser	Pro	Pro	Val	Lys
				660					665					670		
	Asp	Arg	Leu	Arg	Val	Thr	Ser	Ala	Glu	Ile	Lys	Leu	Gly	Lys	Asn	Arg
			675					680					685			
	Thr	Glu	Ala	Glu	Val	Lys	Arg	Tyr	Thr	Glu	Glu	Lys	Glu	Arg	Leu	Glu
		690					695					700				
	Lys	Lys	Lys	Glu	Glu	Ile	Arg	Gly	His	Leu	Ala	Gln	Leu	Arg	Lys	Glu
	705					710					715					720
	Lys	Arg	Glu	Leu	Lys	Glu	Thr	Leu	Leu	Lys	Cys	Thr	Asp	Lys	Glu	Val
					725					730					735	
	Leu	Ala	Ser	Leu	Glu	Gln	Lys	Leu	Lys	Glu	Ile	Asp	Glu	Glu	Cys	Arg
				740					745					750		
	Gly	Glu	Glu	Ser	Arg	Arg	Val	Asp	Leu	Glu	Leu	Ser	Ile	Met	Glu	Val
			755					760					765			
	Lys	Asp	Asn	Leu	Lys	Lys	Ala	Glu	Ala	Gly	Pro	Val	Thr	Leu	Gly	Thr
		770					775					780				
,	Thr	Val	Asp	Thr	Thr	His	Leu	Glu	Asn	Pro	Lys	Ala	Val	Thr	Pro	Ala
	785					790					795					800
,	Ser	Ala	Pro	Asp	Cys	Thr	Pro	Val	Asn	Ser	Ala	Thr	Thr	Leu	Lys	Asn
					805					810					815	
	Arg	Pro	Leu	Ser	Val	Val	Val	Thr	Gly	Lys	Gly	Thr	Val	Leu	Gln	Lys
				820					825					830		
	Ala	Lys	Glu	Trp	Glu	Lys	Lys	Gly	Ala	Ser						
			835					840								

<210> 2231

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2231

Met Ile Ser Ala His Cys Ser Asn Leu His Phe Leu Gly Ser Ser Glu

1 5 10 15

Ser Pro Thr Leu Ala Ser Gln Val Gly Glu Ile Thr Gly Thr His His
20 25 30

His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His His

35 40 45

Val Gly His Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Thr
50 55 60

Leu Ala Ser Arg Ser Ala Gly Ile Thr Gly Met Ser His Arg Ala Arg
65 70 75 80

Pro His Gly Ile Ser Arg Gly Glu Gln Val Thr Leu Gly Leu Pro Leu 85 90 95

Glu Leu Leu Glu Cys Val Ser Trp Pro Leu Cys Gly Ser Pro Leu Arg 100 105 110

Lys Ala Gln Ile Val Ser Thr Pro Pro Ser Pro Leu Ala Ala Leu Arg 115 120 125

Val Pro Val Gly Ala Glu Gly Trp Gly Gly Thr Glu Gln 130 135 140

<210> 2232

<211> 1139

<212> PRT

<213> Homo sapiens

35

<400> 2232

Met Met Met Gly Thr Arg Thr Arg Arg Ala Ala Arg Leu Thr Met Met

1 5 10 15

Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Met Gly Thr Arg

20 25 30

45

Thr Arg Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr Leu Arg

40

Ala Ala Arg Leu Met Met Met Gly Thr Arg Thr His Arg Thr Ala Trp
50 55 60

Leu Met Ile Met Gly Thr Arg Thr Leu Arg Thr Ala Arg Leu Met Met
65 70 75 80

Arg Gly Thr Arg Thr Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr

85 90 95

Arg Thr Arg Arg Ala Ala Arg Leu Thr Met Met Gly Thr Arg Thr His

100 105 110

Arg Thr Ala Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Thr Ala
115 120 125

Arg Leu Thr Met Met Gly Thr Arg Thr His Arg Ala Ala Arg Leu Thr
130 135 140

Met Met Gly Thr Arg Thr Leu Arg Ala Ala Trp Leu Met Val Met Gly
145 150 155 160

Thr Arg Thr Arg Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr
165 170 175

Leu Arg Ala Ala Arg Leu Met Ile Met Gly Thr Arg Thr His Arg Thr
180 185 190

Ala Arg Leu Met Met Arg Gly Thr Arg Thr Leu Arg Ser Ala Arg Leu

		195					200					205			
Met	Met	Arg	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Val	Met	Ile	Met
	210					215					220			٠	
Gly	Thr	Arg	Thr	Arg	Arg	Ala	Ala	Arg	Leu	Met	Ile	Met	Gly	Thr	Arg
225					230					235					240
Thr	Leu	Arg	Ala	Ala	Gln	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	His	Arg
				245					250					255	
Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	His	Arg	Thr	Ala	Arg
			260					265					270		
Leu	Met	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Met
		275					280					285			
Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Ile	Met	Gly	Thr
	290					295					300			•	
Arg	Thr	His	Arg	Thr	Ala	Arg	Leu	Met	Met	Arg	Gly	Thr	Arg	Thr	Leı
305					310					315					320
Arg	Thr	Ala	Arg	Leu	Met	Met	Arg	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala
				325					330					335	
Arg	Leu	Thr	Ile	Met	Gly	Thr	Arg	Thr	His	Arg	Ala	Ala	Arg	Leu	Thr
			340					345					350		
Ile	Met	Gly	Thr	Arg	Thr	His	Arg	Thr	Ala	Arg	Leu	Thr	Met	Met	Gly
		355					360					365			
Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr
	370					375					380				
Leu	Arg	Ala	Ala	Arg	Leu	Met	Ile	Met	Gly	Thr	Arg	Thr	His	Arg	Ala
385					390					395					400
Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu
				405					410					415	
Met	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Met	Met
			420					125					430		

Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg
		435					440					445			
Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	His	Arg
	450					455					460				
Ala	Ala	Arg	Leu	Met	Arg	Gly	Thr	Arg	Thr	His	Arg	Thr	Ala	Arg	Leu
465					470					475					480
Met	Met	Arg	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Thr	Met	Met
				485					490					495	
Gly	Thr	Arg	Thr	His	Arg	Ala	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg
			500					505					510		
Thr	His	Arg	Ala	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg
		515					520					525			
Ala	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	His	Arg	Thr	Ala	Arg
	530					535					540				
Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Met
545					550					555					560
Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr
				565					570					575	
Arg	Thr	His	Arg	Ala	Ala	Trp	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	Leu
			580					585					590		
Arg	Ala	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala
		595					600					605			
Arg	Leu	Met	Met	Met	Gly	Ser	Arg	Thr	Leu	Arg	Ala	Ala	Gln	Leu	Met
	610					615					620				
Met	Met	Gly	Thr	Arg	Thr	His	Arg	Thr	Ala	Trp	Leu	Met	Ile	Met	Gly
625					630					635					640
Thr	Arg	Thr	Leu	Arg	Thr	Ala	Arg	Leu	Met	Met	Arg	Gly	Thr	Arg	Thr
				645					650					655	
Leu	Arg	Ala	Ala	Arg	Leu	Met	He	Met	Glv	Thr	Arg	Thr	Arg	Arg	Ala

			660					665					670		
Ala	Arg	Leu	Met	Ile	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu
		675					680					685			
Thr	Ile	Met	Gly	Thr	Arg	Thr	His	Arg	Ala	Ala	Arg	Leu	Met	Met	Met
	690				•	695					700				
Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Thr	Ile	Met	Gly	Thr	Arg
705					710					715					720
Thr	His	Arg	Thr	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg
				725					730					735	
Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg
			740					745					750		
Leu	Met	Met	Met	Gly	Thr	Arg	Thr	His	Arg	Ala	Ala	Arg	Leu	Met	Met
		755					760					765			
Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr
	770					775					780				
Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	Leu
785					790					795					800
Arg	Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	His	Arg	Thr	Ala
				805					810					815	
Arg	Leu	Met	Met	Arg	Gly	Thr	Arg	Thr	Leu	Arg	Thr	Ala	Arg	Leu	Met
			820					825					830		
Met	Arg	Gly	Thr	Arg	Thr	Arg	Arg	Ala	Ala	Arg	Leu	Thr	Ile	Met	Gly
		835					840					845			
Thr	Arg	Thr	Arg	Arg	Thr	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr
	850					855					860				
His	Arg	Thr	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala
865					870					875					880
Ala	Arg	Leu	Thr		Met	Gly	Thr	Arg	Thr	His	Arg	Thr	Ala		Leu
				885					890					895	

Thr	Met	Met	Gly	Thr	Arg	Thr	Leu		Ala	Ala	Arg	Leu		Met	Met
			900					905					910		
Gly	Thr	Arg	Thr	Leu	Arg	Ala		Arg	Leu	Met	Met		Gly	Thr	Arg
		915					920					925			
Thr	His	Arg	Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg
	930					935					940				
Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	Arg	Arg	Ala	Ala	Arg
945					950					955					960
Leu	Met	Met	Met	Gly	Ser	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Met	Met
				965					970					975	
Met	Gly	Thr	Arg	Thr	His	Arg	Thr	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr
			980					985					990		
Arg	Thr	His	Arg	Thr	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	Leu
		995				-	1000				-	1005			
Arg	Ala	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	His	Arg	Ala	Ala
]	1010				]	1015					1020				
Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	His	Arg	Ala	Ala	Arg	Leu	Thr
1025	5				1030				]	1035				]	1040
Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu	Thr	Met	Met	Gly
			]	1045				. ]	1050				]	1055	
Thr	Arg	Thr	His	Arg	Thr	Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr
		3	1060				3	1065					1070		
Leu	Arg	Ala	Ala	Arg	Leu	Met	Met	Met	Gly	Thr	Arg	Thr	Asp	Arg	Thr
	]	1075					1080				:	1085			
Ala	Arg	Leu	Thr	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Leu
]	1090				]	1095				]	1100				
Met	Met	Met	Gly	Thr	Arg	Thr	Leu	Arg	Thr	Ala	Arg	Leu	Met	Ile	Met
1105	5			-	1110				]	1115				J	1120
Gly	Thr	Arg	Thr	Leu	Arg	Ala	Ala	Arg	Ser	Thr	Val	Ala	Glu	Thr	Arg



1125 1130 1135

Pro Gly Ala

<210> 2233

<211> 194

<212> PRT

<213> Homo sapiens

<400> 2233

Met Asp Leu Val Gly Gly Pro His Leu Ala Leu Ser Pro Ala Ser Gln

1 5 10 15

Pro Ala Leu Phe Ile Cys Ser Ala Val Phe Val Ser Pro Trp His Ser

20 25 30

Leu Phe Arg Leu Trp Asn Ile Tyr Glu Met Ser Gln Phe Leu Lys Ile

35 40 45

Ile Glu Asn Lys Trp Phe Ala Leu Gly Ala Glu Gly Arg Gly Ser Gln

50 55 60

Gly Arg Arg Gln Val Pro Gly Gln Phe Trp Gly Arg Ile Leu Ala Tyr

65 70 75 80

Pro Leu Leu Cys Phe Phe Ile Leu Leu Pro Trp Glu Pro Lys Gly Phe

85 90 95 ·

Gln Trp Asp Phe Leu Pro Arg Phe Leu Gln Tyr Tyr Asp Met Glu Arg

100 105 110

Leu Glu His Ser Thr Ile His Phe Leu Ile Leu Thr Ser Thr Ile Ile

115 120 125

Ser Ser Ile Pro Asn Ser Gly Ser Tyr Pro Leu Ser Ser Ser Tyr Ser

130 135 140

Leu Asn

<210> 2234

<211> 369

<212> PRT

<213> Homo sapiens

<400> 2234

Met Thr Gly Ser Ala Val Glu Arg Leu Val Pro Glu Pro Leu Val Gly
1 5 10 15

Asn Leu Ser Gly Ile Glu Lys Glu Gln Leu Asp Ala Gln Arg Val Gly
20 25 30

Val Ala Ala Val Ala Phe Gly Ser Gly Ala Leu Met Leu Gly Met
35 40 45

Phe Val Leu Gln Leu Gly Val Leu Ser Thr Phe Leu Ser Glu Pro Val
50 55 60

Val Lys Ala Leu Thr Ser Gly Ala Ala Leu His Val Leu Leu Ser Gln 65 70 75 80

Leu Pro Ser Leu Leu Gly Leu Ser Leu Pro Arg Gln Ile Gly Cys Phe
85 90 95

Ser Leu Phe Lys Thr Leu Ala Ser Leu Leu Thr Thr Leu Pro Arg Ser

			100					105					110		
Ser	Pro	Ala	Glu	Leu	Thr	Ile	Ser	Ala	Leu	Ser	Leu	Ala	Leu	Leu	Val
		115					120					125			
Pro	Val	Lys	Glu	Leu	Asn	Val	Arg	Phe	Arg	Asp	Arg	Leu	Pro	Thr	Pro
	130					135					140				
Ile	Pro	Gly	Glu	Val	Val	Leu	Val	Leu	Leu	Ala	Ser	Val	Leu	Cys	Phe
145					150					155					160
Thr	Ser	Ser	Val	Asp	Thr	Arg	Tyr	Gln	Val	Gln	Ile	Val	Gly	Leu	Leu
				165					170					175	
Pro	Gly	Gly	Phe	Pro	Gln	Pro	Leu	Leu	Pro	Asn	Leu	Ala	Glu	Leu	Pro
			180					185					190		
Arg	Ile	Leu	Ala	Asp	Ser	Leu	Pro	Ile	Ala	Leu	Val	Ser	Phe	Ala	Val
		195					200					205			
Ser	Ala	Ser	Leu	Ala	Ser	Ile	His	Ala	Asp	Lys	Tyr	Ser	Tyr	Thr	Ile
	210					215					220				
Asp	Ser	Asn	Gln	Glu	Phe	Leu	Ala	His	Gly	Ala	Ser	Asn	Leu	Ile	Ser
225					230					235					240
Ser	Leu	Phe	Ser	Cys	Phe	Pro	Asn	Ser	Ala	Thr	Leu	Ala	Thr	Thr	Asn
				245					250					255	
Leu	Leu	Val	Asp	Ala	Gly	Gly	Lys	Thr	Gln	Leu	Ala	Gly	Leu	Phe	Ser
			260					265			•		270		
Cys	Thr	Val	Val	Leu	Ser	Val	Leu	Leu	Trp	Leu	Gly	Pro	Phe	Phe	Tyr
		275					280					285			
Tyr	Leu	Pro	Lys	Ala	Val	Leu	Ala	Cys	Ile	Asn	Ile	Ser	Ser	Met	Arg
	290					295					300				
Gln	Val	Phe	Cys	Gln	Met	Gln	Glu	Leu	Pro	Gln	Leu	Trp	His	Ile	Ser
305					310					315					320
Arg	Val	Asp	Phe	Ala	Val	Trp	Met	Val	Thr	Trp	Val	Ala	Val	Val	Thr
				325					330					335	

Leu Ser Val Asp Leu Gly Leu Ala Val Gly Val Val Phe Ser Met Met 340 345 350

Thr Val Val Cys Arg Thr Arg Ser Ser Ser Arg Ser Arg Gly Ser Ala 355 360 365

Ser

<210> 2235

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2235

Met Ala Glu Phe Leu Asp Asp Gln Glu Thr Arg Leu Cys Asp Asn Cys

1 5 10 15

Lys Lys Glu Ile Pro Val Phe Asn Phe Thr Ile His Glu Ile His Cys
20 25 30

Gln Arg Asn Ile Gly Met Cys Pro Thr Cys Lys Glu Pro Phe Pro Lys
35 40 45

Ser Asp Met Glu Thr His Met Ala Ala Glu His Cys Gln Val Thr Cys
50 55 60

Lys Cys Asn Lys Lys Leu Glu Lys Arg Leu Leu Lys Lys His Glu Glu 65 70 75 80

Thr Glu Cys Pro Leu Arg Leu Ala Val Cys Gln His Cys Asp Leu Glu
85 90 95

Leu Ser Ile Leu Lys Leu Lys Glu His Glu Asp Tyr Cys Gly Ala Arg
100 105 110

Thr Glu Leu Cys Gly Asn Cys Gly Arg Asn Val Leu Val Lys Asp Leu

Lys Thr His Pro Glu Val Cys Gly Arg Glu Gly Glu Glu Lys Arg Asn Glu Val Ala Ile Pro Pro Asn Ala Tyr Asp Glu Ser Trp Gly Gln Asp Gly Ile Trp Ile Ala Ser Gln Leu Leu Arg Gln Ile Glu Ala Leu Asp Pro Pro Met Arg Leu Pro Arg Arg Pro Leu Arg Ala Phe Glu Ser Asp Val Phe His Asn Arg Thr Thr Asn Gln Arg Asn Ile Thr Ala Gln Val Ser Ile Gln Asn Asn Leu Phe Glu Glu Glu Glu Arg Gln Glu Arg Asn Arg Gly Gln Gln Pro Pro Lys Glu Gly Glu Glu Ser Ala Asn Leu Asp Phe Met Leu Ala Leu Ser Leu Gln Asn Glu Gly Gln Ala Ser Ser Val Ala Glu Gln Asp Phe Trp Arg Ala Val Cys Glu Ala Asp Gln Ser His Gly Gly Pro Arg Ser Leu Ser Asp Ile Arg Val Gln Leu Thr Arg Ser Cys Cys Leu Val Asn Phe Val Arg Ser Ser Thr Gln Arg Asn Cys

<210> 2236

<211> 216

<212> PRT

<213> Homo sapiens

<400> 2236 Met Leu Lys Phe Gln Glu Ala Ala Lys Cys Val Ser Gly Ser Thr Ala Ile Ser Thr Tyr Pro Lys Thr Leu Ile Ala Arg Arg Tyr Val Leu Gln Gln Lys Leu Gly Ser Gly Ser Phe Gly Thr Val Tyr Leu Val Ser Asp Lys Lys Ala Lys Arg Gly Glu Glu Leu Lys Val Leu Lys Glu Ile Ser Val Gly Glu Leu Asn Pro Asn Glu Thr Val Gln Ala Asn Leu Glu Ala Gln Leu Leu Ser Lys Leu Asp His Pro Ala Ile Val Lys Phe His Ala Ser Phe Val Glu Gln Asp Asn Phe Cys Ile Ile Thr Glu Tyr Cys Glu Gly Arg Asp Leu Asp Asp Lys Ile Gln Glu Tyr Lys Gln Ala Gly Lys Ile Phe Pro Glu Asn Gln Ile Ile Glu Trp Phe Ile Gln Leu Leu Gly Val Asp Tyr Met His Glu Arg Arg Ile Leu His Arg Asp Leu Lys Ser Lys Asn Val Phe Leu Lys Asn Asn Leu Leu Lys Ile Gly Asp Phe Gly Val Ser Arg Leu Leu Met Gly Ser Cys Asp Leu Ala Thr Thr Leu Thr Gly Thr Pro His Tyr Met Ser Pro Glu Ala Leu Lys His Gln Gly Tyr Asp Thr Lys Ser Asp Ile Trp

215

210

<210> 2237

<211> 477

<212> PRT

<213> Homo sapiens

<400> 2237

Met Ser Val Ser Asn Leu Ser Trp Leu Lys Lys Ser Gln Ser Val

1 5 10 15

Asp Ile Asn Ala Pro Gly Phe Asn Pro Leu Ala Gly Ala Gly Lys Gln

20 25 30

Thr Pro Gln Ala Ser Lys Pro Pro Ala Pro Lys Thr Pro Ile Ile Glu

35 40 45

Glu Glu Gln Asn Asn Ala Ala Asn Thr Gln Lys His Pro Ser Arg Arg

50 55 60

Ser Glu Leu Lys Arg Phe Tyr Thr Ile Asp Thr Gly Gln Lys Lys Thr

65 70 75 80

Leu Asp Lys Lys Asp Gly Arg Arg Met Ser Phe Gln Lys Pro Lys Gly

85 90 95

Thr Ile Glu Tyr Thr Val Glu Ser Arg Asp Ser Leu Asn Ser Ile Ala

100 105 110

Leu Lys Phe Asp Thr Thr Pro Asn Glu Leu Val Gln Leu Asn Lys Leu

115 120 125

Phe Ser Arg Ala Val Val Thr Gly Gln Val Leu Tyr Val Pro Asp Pro

130 135 140

Glu Tyr Val Ser Ser Val Glu Ser Ser Pro Ser Leu Ser Pro Val Ser

145 150 155 160

Pro	Leu	Ser	Pro	Thr	Ser	Ser	Glu	Ala	Glu	Phe	Asp	Lys	Thr	Thr	Asn
				165					170					175	
Pro	Asp	Val	His	Pro	Thr	Glu	Ala	Thr	Pro	Ser	Ser	Thr	Phe	Thr	Gly
			180					185					190		
Ile	Arg	Pro	Ala	Arg	Val	Val	Ser	Ser	Thr	Ser	Glu	Glu	Glu	Glu	Ala
		195					200					205			
Phe	Thr	Glu	Lys	Phe	Leu	Lys	Ile	Asn	Cys	Lys	Tyr	Ile	Thr	Ser	Gly
	210					215					220				
Lys	Gly	Thr	Val	Ser	Gly	Val	Leu	Leu	Val	Thr	Pro	Asn	Asn	Ile	Met
225					230					235					240
Phe	Asp	Pro	His	Lys	Asn	Asp	Pro	Leu	Val	Gln	Glu	Asn	Gly	Cys	Glu
				245					250					255	
Glu	Tyr	Gly	Ile	Met	Cys	Pro	Met	Glu	Glu	Val	Met	Ser	Ala	Ala	Met
			260					265					270		
Tyr	Lys	Glu	Ile	Leu	Asp	Ser	Lys	Ile	Lys	Glu	Ser	Leu	Pro	Ile	Asp
		275					280					285			
Ile	Asp	Gln	Leu	Ser	Gly	Arg	Asp	Phe	Cys	His	Ser	Lys	Lys	Met	Thr
	290					295					300				
Gly	Ser	Asn	Thr	Glu	Glu	Ile	Asp	Ser	Arg	Ile	Arg	Asp	Ala	Gly	Asn
305					310					315					320
Asp	Ser	Ala	Ser	Thr	Ala	Pro	Arg	Ser	Thr	Glu	Glu	Ser	Leu	Ser	Glu
				325					330					335	
Asp	Val	Phe	Thr	Glu	Ser	Glu	Leu	Ser	Pro	Ile	Arg	Glu	Glu	Leu	Val
			340					345					350		
Ser	Ser	Asp	Glu	Leu	Arg	Gln	Asp	Lys	Ser	Ser	Gly	Ala	Ser	Ser	Glu
		355					360					365			
Ser	Val	Gln	Thr	Val	Asn	Gln	Ala	Glu	Val	Glu	Ser	Leu	Thr	Val	Lys
	370					375					380				
Ser	Glu	Ser	Thr	G1 <sub>37</sub>	Thr	Pro	Glv	Hie	Leu	Ara	Ser	Asn	Thr	Glu	His

Ser Thr Asn Glu Val Gly Thr Leu Cys His Lys Thr Asp Leu Asn Asn Leu Glu Met Ala Ile Lys Glu Asp Gln Ile Ala Asp Asn Phe Gln Gly Ile Ser Gly Pro Lys Glu Asp Ser Thr Ser Ile Lys Gly Asn Ser Asp Gln Asp Ser Phe Leu His Glu Asn Ser Leu His Gln Glu Glu Ser Gln Lys Glu Asn Met Pro Cys Gly Glu Thr Ala Glu Phe Lys 

<210> 2238

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2238

Met Gly Arg Gln Ser Pro Ala Asp Gly Trp Ala Leu Trp Ala Ala Thr Leu Cys Glu Gln Gly Val Gly Pro Ile His Phe Lys Asp Gln Ser Pro Ala Leu Gly Glu Cys Ser Trp Pro Arg Leu Gly Ile Thr Phe Arg Gly Pro Ser Asp Ser Gly Gly Ala Cys Cys Gly Leu Pro Pro Ala Ser Gly Val Ala Glu Gln Thr Pro Gly Pro Gly Pro Val Pro Phe Ser Pro Pro 

Gly Gln Thr Gln Thr Leu Gly Gly Trp Asn Gly Gly Gln Gly 90 95 85 Ser Met Gly Asp Val Gly Met Lys Val Gly Ala Gly Gly Ala Gly Gly 100 105 110 Pro Gly Thr Trp Met Gly Val Asp Arg Pro Phe Ser Leu Glu Ala Arg 120 125 115 Ser Ala Ala Leu Ala Gly Ser Glu Ala Pro Gly Thr Thr Ser Phe Pro 130 135 140 Asp Phe Pro Val Trp Ser Val 145 150

<210> 2239

<211> 456

<212> PRT

<213> Homo sapiens

<400> 2239

Met Glu Ala Leu Gly Asp Leu Glu Gly Pro Arg Ala Pro Gly Gly Asp

1 5 10 15

Asp Pro Ala Gly Ser Ala Gly Glu Thr Pro Gly Trp Leu Ser Arg Glu

20 25 30

Gln Val Phe Val Leu Ile Ser Ala Ala Ser Val Asn Leu Gly Ser Met
35 40 45

Met Cys Tyr Ser Ile Leu Gly Pro Phe Phe Pro Lys Glu Ala Glu Lys
50 55 60

Lys Gly Ala Ser Asn Thr Ile Ile Gly Met Ile Phe Gly Cys Phe Ala 65 70 75 80

Leu Phe Glu Leu Leu Ala Ser Leu Val Phe Gly Asn Tyr Leu Val His

				85					90					95	
Ile	Gly	Ala	Lys	Phe	Met	Phe	Val	Ala	Arg	Met	Phe	Val	Ser	Gly	Gly
			100					105					110		
Val	Thr	Ile	Leu	Phe	Gly	Val	Leu	Asp	Arg	Val	Pro	Asp	Gly	Pro	Val
		115					120					125			
Phe	Ile	Ala	Met	Cys	Phe	Leu	Val	Arg	Val	Met	Asp	Ala	Val	Ser	Phe
	130					135					140				
Ala	Ala	Ala	Met	Thr	Ala	Ser	Ser	Ser	Ile	Leu	Ala	Lys	Ala	Phe	Pro
145					150					155					160
Asn	Asn	Val	Ala	Thr	Val	Leu	Gly	Ser	Leu	Glu	Thr	Phe	Ser	Gly	Leu
				165					170					175	
Gly	Leu	Ile	Leu	Gly	Pro	Pro	Val	Gly	Gly	Phe	Leu	Tyr	Gln	Ser	Phe
			180					185					190		
Gly	Tyr	Glu	Val	Pro	Phe	Ile	Val	Leu	Gly	Cys	Val	Val	Leu	Leu	Met
		195					200					205			
Val	Pro	Leu	Asn	Met	Tyr	Ile	Leu	Pro	Asn	Tyr	Glu	Ser	Asp	Pro	Gly
	210					215					220				
Glu	His	Ser	Phe	Trp	Lys	Leu	Ile	Ala	Leu	Pro	Lys	Val	Gly	Leu	Ile
225					230					235					240
Ala	Phe	Val	Ile	Asn	Ser	Leu	Ser	Ser	Cys	Phe	Gly	Phe	Leu	Asp	Pro
				245					250					255	
Thr	Leu	Ser	Leu	Phe	Val	Leu	Glu	Lys	Phe	Asn	Leu	Pro	Ala	Gly	Tyr
			260					265					270		
Val	Gly	Leu	Val	Phe	Leu	Gly	Met	Ala	Leu	Ser	Tyr	Ala	Ile	Ser	Ser
		275					280					285			
Pro	Leu	Phe	Gly	Leu	Leu	Ser	Asp	Lys	Arg	Pro	Pro	Leu	Arg	Lys	Trp
	290					295					300				
Leu	Leu	Val	Phe	Gly	Asn	Leu	Ile	Thr	Ala	Gly	Cys	Tyr	Met	Leu	Leu
305					310					315					320

Gly Pro Val Pro Ile Leu His Ile Lys Ser Gln Leu Trp Leu Leu Val 330 335 325 Leu Ile Leu Val Val Ser Gly Leu Ser Ala Gly Met Ser Ile Ile Pro 345 350 340 Thr Phe Pro Glu Ile Leu Ser Cys Ala His Glu Asn Gly Phe Glu Glu 360 365 355 Gly Leu Ser Thr Leu Gly Leu Val Ser Gly Leu Phe Ser Ala Met Trp 380 370 375 Ser Ile Gly Ala Phe Met Gly Pro Thr Leu Gly Gly Phe Leu Tyr Glu 395 400 385 390 Lys Ile Gly Phe Glu Trp Ala Ala Ala Ile Gln Gly Leu Trp Ala Leu 405 410 415 Ile. Ser Gly Leu Ala Met Gly Leu Phe Tyr Leu Leu Glu Tyr Ser Arg 420 425 430 Arg Lys Arg Ser Lys Ser Gln Asn Ile Leu Ser Thr Glu Glu Glu Arg 435 440 445 Thr Thr Leu Leu Pro Asn Glu Thr 450 455

<210> 2240

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2240

Met Val Met Val Gly Ala Thr Ser Leu Gly Ala Tyr Gly Gly Glu Arg

1 5 10 15

Arg Ser Trp Val Pro Ser Ala His His Leu Gly Glu Gly Leu Val Pro

出証特2004-3059660

25 20 30 Asp Pro Thr Ser Gly Phe Val Cys Gln Pro Gly Ala Phe Phe Ser Pro 35 40 45 Tyr Leu Leu Asp Tyr Phe Ile Thr Leu Phe Leu Pro Glu Met His Leu 50 55 60 Leu Leu Asp Trp Ser Arg Ser Lys Pro Cys Ser Phe Thr Glu Ala Leu 70 75 80 65

Pro Val Gly Ile Ser Cys Arg Ile Pro Pro Ser Arg Asp Gln Ser Val 85 90 95

Leu Trp Leu Phe His Lys

100

<210> 2241

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2241

Met Ser Ala Gly Glu Pro Ala Ala Ala Pro Asn Leu Asp Glu Glu Arg

1 5 10 15

Asn Leu Val Ala Val Pro Ala Glu Lys Pro His Gly Ser Pro His Ile
20 25 30

Ser Thr Met Val Pro Gly Phe Ser His Pro His Arg Pro Arg Leu Leu
35 40 45

Pro Ser His Pro Arg Pro Glu Thr Gln Lys Ala Leu Asp Arg Ala Ala .50 55 60

Ser Ser Gly Ile Trp Thr Gly Leu Arg Tyr Leu Leu Pro Ala Pro Gln 65 70 75 80

 Ser Ala Ile Arg His Ile His Pro Arg Gly Thr Arg Cys Ser Phe Arg

 85
 90
 95

 Gly Cys Leu Gln Gly Met Glu Asp Ser His Arg Arg Leu Leu Thr Ser
 100
 105

 His Ala Gln Val Ser Pro Arg Cys His Val Gln Ser Glu Pro Phe Leu
 120
 125

 Ala His Val Pro Val Leu Val Ala
 135
 135

<210> 2242

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2242

Met Gly Leu Arg Pro Pro Gly Asn Asn His Arg Ala Cys Ser Ser Ala

1 5 10 15

Pro Ala Ser Pro Glu Ser His Pro Arg Asp Gln Pro His Pro Gln His
20 25 30

Asn Cys Pro Ala Gly Glu Ala Pro Trp Ala Trp Arg Gly Phe Pro Asp

35 40 45

Thr Ala His Pro Gly Pro Ala Ser Ser Thr Lys Thr Glu Thr Leu Ala 50 55 60

Thr His Gly Gly Trp Gly Pro Gly Val Leu Arg Arg Gly Tyr Pro Gly
65 70 75 80

Pro Arg Pro Glu Ile His Gln Leu His Pro Arg Gly Gly Thr Ala Asp 85 90 95

Gly Ser Gln His Gln Gln Asp Pro Arg Ala Pro Arg Thr Glu Val Cys

100 105 110

Pro Thr His Phe Leu Pro Thr Thr Cys Ala Pro Glu Ser Arg Ala Cys
115 120 125

Pro Gly Arg Trp Arg Pro Gly Val Glu Cys Thr Cys Ser His Glu Val 130 135 140

Leu Gly Val Phe

145

<210> 2243

<211> 539

<212> PRT

<213> Homo sapiens

<400> 2243

Met Arg Ile Ser Phe Lys Ala Gly Val Tyr Val Pro His Pro Thr Gly

1 5 10 15

His Val Thr Phe Ile Thr Leu Trp Trp Asn Glu Lys Lys Gly Ile Trp
20 25 30

Asp Met Ile Asn Ser Gly Asn Ala Ile Val Cys Leu Arg Gln Gln Arg
35 40 45

Asp Ser Gly Ser Arg Gly Arg Pro Arg Ala Ser Val Thr Ser Pro Asp
50 55 60

Cys Arg Val Thr Val Ala Tyr Pro Gly Gly Ala Thr Arg Pro Ala Gly
65 70 75 80

Lys Met Thr Ser Pro Ser Glu Leu Leu Gln Thr Ser Ala Arg Ser Gly
85 90 95

Ser Trp Arg Ala Gly Gly Gly Trp Glu Thr Ser Arg Ala His Gly Thr
100 105 110

Asp	Arg	Arg	Gln	Lys	Pro	Gly	Gly	Val	Arg	Trp	Ala	Pro	Asp	Pro	Cys
		115					120					125			
Pro	Pro	Ser	Ser	Arg	Ala	Ala	Pro	Gly	Gly	Pro	Ala	Pro	Ser	Val	Asn
	130					135					140				
Ala	Ala	Gly	Arg	Pro	Ile	Arg	Ala	Gly	Arg	Gly	Ala	Ala	Gln	Pro	Ile
145					150					155					160
Ser	Gly	Gln	Ser	Ser	Arg	Ala	Leu	Pro	Arg	Ser	Arg	Ala	Leu	Pro	Arg
				165					170					175	
Ser	Arg	Glu	Leu	Pro	Ala	Arg	Cys	Arg	Arg	Asp	Trp	Glu	Arg	Ala	Pro
			180					185					190		
Gln	Arg	Thr	Leu	Ala	Arg	Gly	Ser	Ala	Gln	Ser	Val	Cys	Glu	Asp	Pro
		195					200					205			
Ala	Arg	Arg	Pro	Pro	Gly	Asp	Pro	Met	Ala	Ser	Glu	Gly	Leu	Ala	Gly
	210					215					220			•	
Ala	Leu	Ala	Ser	Val	Leu	Ala	Gly	Gln	Gly	Ser	Ser	Val	His	Ser	Cys
225					230					235					240
Asp	Ser	Ala	Pro	Ala	Gly	Glu	Pro	Pro	Ala	Pro	Val	Arg	Leu	Arg	Lys
				245					250					255	
Asn	Val	Cys	Tyr	Val	Val	Leu	Ala	Val	Phe	Leu	Ser	Glu	Gln	Asp	Glu
			260					265					270		
Val	Leu	Leu	Ile	Gln	Glu	Ala	Lys	Arg	Glu	Cys	Arg	Gly	Ser	Trp	Tyr
		275					280					285			
Leu	Pro	Ala	Gly	Arg	Met	Glu	Pro	Gly	Glu	Thr	Ile	Val	Glu	Ala	Leu
	290					295					300				
Gln	Arg	Glu	Val	Lys	Glu	Glu	Ala	Gly	Leu	His	Cys	Glu	Pro	Glu	Thr
305					310					315					320
Leu	Leu	Ser	Val	Glu	Glu	Arg	Gly	Pro	Ser	Trp	Val	Arg	Phe	Val	Phe
				325					330					335	
Leu	Ala	Arg	Pro	Thr	Gly	Gly	Ile	Leu	Lys	Thr	Ser	Lys	Glu	Ala	Asp